Welcome...…

And thank you for purchasing this KOSS Audio/Video Home Theater System. This state of the art system includes everything you need to experience movie theater quality digital video and audio in the comfort of your own living room. The only thing you need to add is your own TV. We have designed this system to be easy to set up, and even easier to use. But please, review this manual before you operate your system; have it handy while you are setting the system up; and keep it available for future reference, or in the unlikely event that you encounter any unexpected problems. We have tried to keep this manual as simple as possible. It begins with a description of the important controls on the main unit and the remote. It then explains how to connect the speakers, your TV, and optional external sources to the main unit, how to position the speakers for the most natural surround sound, and then how to operate the DVD/CD player and the AM/FM Stereo Receiver. If you follow the instructions carefully you can have the system up and operating in less than an hour.

All of the optional system settings have been preset at our factory for correct operation of the system in North America. All you have to do is insert a disc, sit back, and enjoy a great home theater experience.
Eventually you may want to change some of the optional settings. A description of all the optional settings, and instructions for changing them, is found in the second half of the manual.

This system was designed to provide you with many years of reliable operation with a minimum of care and maintenance. Every component in your system was in perfect working condition when it left our factory. If you experience any problems with the set up or operation of this system please review the Trouble Shooting Guide at the end of this manual before you contact your dealer or the Sonigem Customer Service Department.

The serial number of your system can be found on a label on the back panel of the main unit, and also on the display carton. Please record the serial number in the space below. You may need to refer to this number if your system ever needs to be serviced.
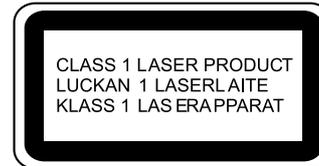
Model No.: KS4380-2

Serial No.: _____

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.
To avoid electrical shock, do not open the cabinet.
Refer servicing to qualified service personnel only.

The AC cord must only be changed at qualified service facility.

```
CLASS 1 LASER PRODUCT
LUCKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
```
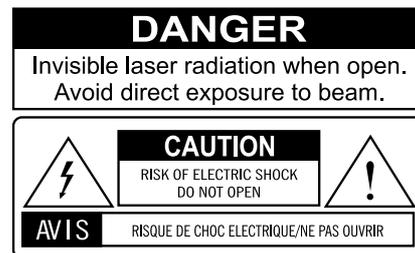
- This appliance is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT MARKING is located on the rear panel.
- This product contains a low power laser device. To ensure continued safety, do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel only.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Caution

Refer servicing to qualified service personnel only.

The following marking is printed on the rear panel.

DANGER
Invisible laser radiation when open.
Avoid direct exposure to beam.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS   RISQUE DE CHOC ELECTRIQUE/NE PAS OUVRIR

This symbol is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the applicance.

Important Safety Instructions

Before using the unit, be sure to read all operating instructions carefully. Please note that these are general precautions and may not pertain to your unit. For example, this unit may not have the capability to be connected to an outdoor antenna.

1. **READ INSTRUCTIONS**
   All the safety and operating instructions should be read before the product is operated.

2. **RETAIN INSTRUCTIONS**
   The safety and operating instruction should be retained for future reference.

3. **HEED WARNINGS**
   All warning on the product and in the operating instructions should be adhered to.

4. **FOLLOW INSTRUCTIONS**
   All operating and use instructions should be followed.

5. **CLEANING**
   Unplug this product from the wall outlet before cleaning. Do not liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. **ATTACHMENTS**
   Do not use attachments not recommended by the product's manufacturer as they may cause hazards.

7. **WATER AND MOISTURE**
   Do not use this product near water- for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

8. **ACCESSORIES**
   Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surface may cause the appliance and cart combination to overturn.

9. **VENTILATION**
   Slots and openings in the cabinet and in the back or bottom are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat source. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. **POWER SOURCES**
    This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instruction.

11. **GROUNDING OR POLARIZATION**
    This product is equipped with an alternating-current line plug (a plug having one blade wider than the other).
    This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet.
    Do not defeat the safety purpose of the polarized plug.

12. **POWER-CORD PROTECTION**
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. **LIGHTNING**
    To protect your product from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

14. **POWER LINES**
    An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such powerlines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Important Safety Instructions (Continued)

15. **OVERLOADING**

    Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. **OBJECT AND LIQUID ENTRY**

    Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid on the product.

17. **OUTDOOR ANTENNA GROUNDING**

    If an outside antenna is connected to the product, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electric Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge product, size of grounding conductors, location of antenna discharge product, connection to grounding electrodes, and requirements for grounding electrode.

18. **SERVICING**

    Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. **REPLACEMENT PARTS**

    When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitution may result in fire, electric shock or other hazards.

20. **SAFETY CHECK**

    Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. **WALL OR CEILING MOUNTING**

    The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

22. **DAMAGE REQUIRING SERVICE**

    Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
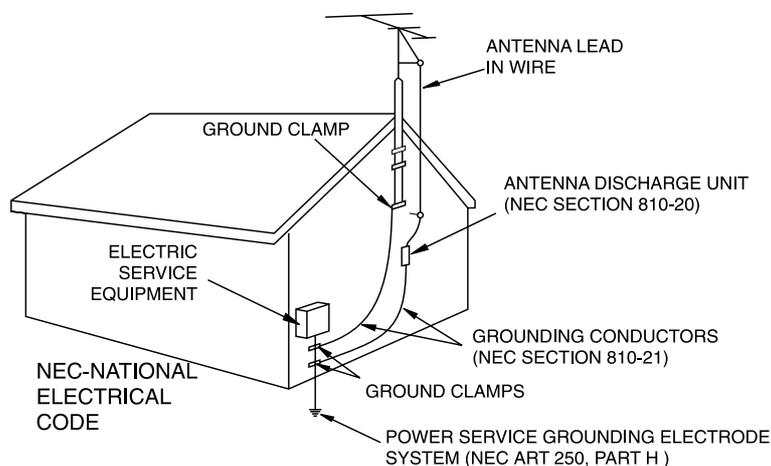
    a. When the power-supply cord or plug is damaged.
    b. If liquid has been spilled, or objects have fallen into the product.
    c. If the product has been exposed to rain or water.
    d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an adjustment of other controls may result on damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
    e. If the product has been dropped or the cabinet has been damaged.
    f. When the product exhibits a distinct change in performance - this indicates a need for service.

23. **HEAT**

    The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

24. **NOTE TO CATV SYSTEM INSTALLER**

    This reminder is provided to call the CATV system installer's attention to Article 820-40 of NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

ELECTRIC SERVICE EQUIPMENT

GROUNDING CONDUCTORS (NEC SECTION 810-21)

NEC-NATIONAL ELECTRICAL CODE

GROUND CLAMPS

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

Important Safety Instructions (Continued)

FCC NOTICE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

To assure continued compliance, follow the attached installation instructions and use only shielded cables when connecting to other devices. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Table of Contents

Location of Controls and Indicators

Main Unit (Front View)
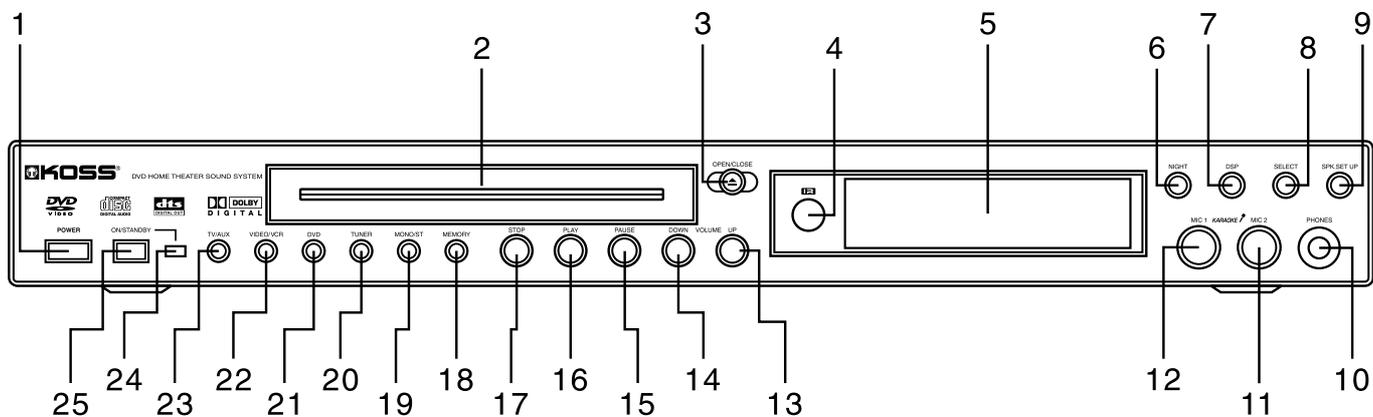
1. POWER Button
2. DISC TRAY
3. OPEN/CLOSE Button
4. REMOTE SENSOR
5. DISPLAY WINDOW
6. NIGHT Button
7. DSP MODE Button
8. SELECT Button
9. SPEAKER SETUP Button
10. HEADPHONE JACK
11. MIC 2 JACK
12. MIC 1 JACK
13. VOLUME UP Button

14. VOLUME DOWN Button
15. PAUSE Button
16. PLAY Button
17. STOP Button
18. MEMORY Button
19. MONO/STEREO Button
20. TUNER BAND (AM/FM) Button
21. DVD Button
22. VIDEO/VCR Button
23. TV/AUX Button
24. ON/STANDBY Indicator
25. ON/STANDBY Button

Location of Jacks and Terminals

Main Unit (Rear View)
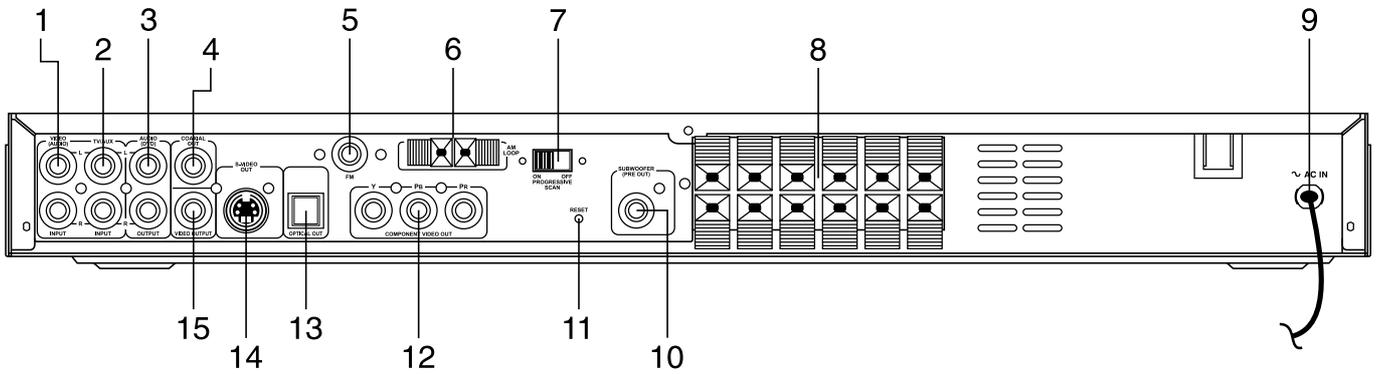
1. VIDEO (AUDIO) Output
2. TV/AUX Input
3. AUDIO (DVD) Output
4. COAXIAL Output
5. FM Antenna Terminal
6. AM LOOP Antenna Terminal
7. PROGRESSIVE SCAN Switch
8. Speakers (Main, Subwoofer, Center & Rear) Output

9. AC Power Cord
10. SUBWOOFER (PRE OUT)
11. RESET Button
12. COMPONENT VIDEO (Y, PB, PR) Output
13. OPTICAL DIGITAL AUDIO Output
14. S-VIDEO Output
15. VIDEO Output

Main Display Indicators
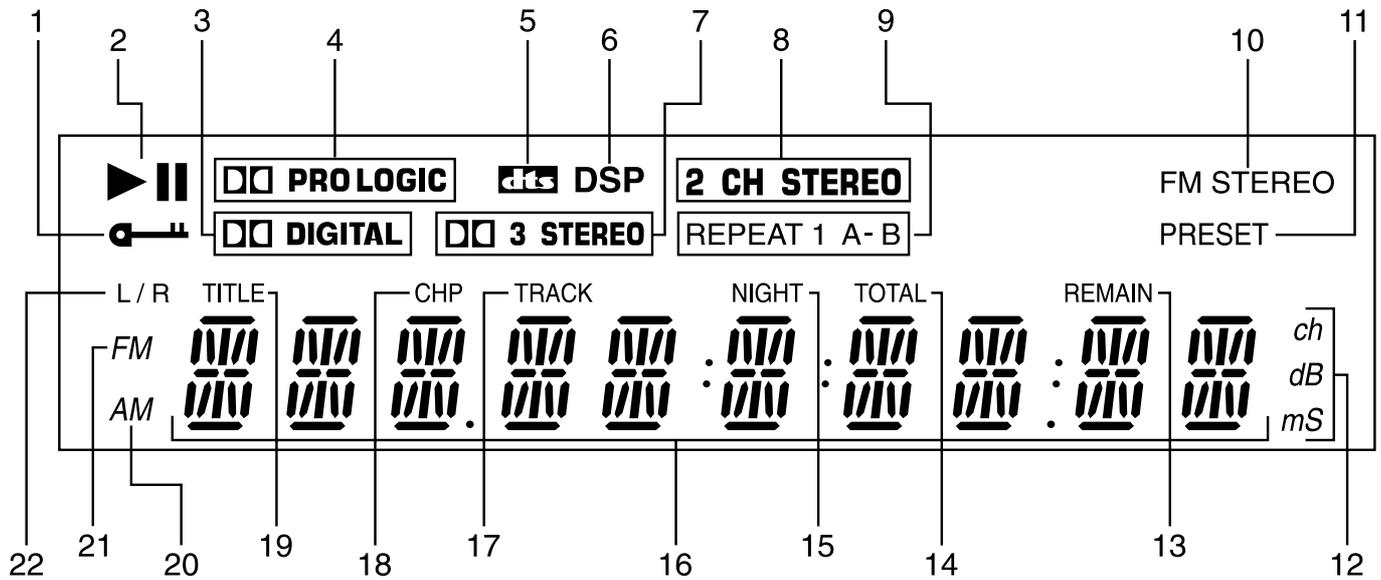
1. Key Lock Indicator
2. Play/Pause Indicator
3. Dolby Digital Indicator
4. Dolby Surround Pro logic Indicator
5. DTS Indicator
6. DSP Mode Indicator
7. Dolby 3-Stereo Indicator
8. 2 Channel Stereo Indicator
9. Repeat 1/A-B Indicator
10. FM Stereo Indicator
11. Preset Station Indicator

12. Channel / Decibel / Milliseconds Indicators
13. Remain Time Indicator
14. Total Indicator
15. Night Indicator
16. Status Bar Indicator
17. Track Indicator
18. Chapter Indicator
19. Title Indicator
20. AM Band Indicator
21. FM Band Indicator
22. Left / Right Channel Indicator

Remote Controller Buttons

1. EJECT Button
2. KEY LOCK Button
3. PBC Button
4. SUBTITLE Button
5. TITLE MENU Button
6. AUDIO MENU Button
7. DIGEST Button
8. DVD MENU Button
9. AUDIO MODE Button
10. BOOKMARK Button
11. SEARCH Button
12. DISPLAY Button
13. RETURN Button
14. SEARCH REVERSE Button
15. RANDOM Button
16. SKIP REVERSE Button
17. PROGRAM Button
18. TREBLE Button
19. SLOW/R Button
20. BASS Button
21. KARAOKE Button
22. TEST TONE / MODE Button
23. MUTE Button
24. SURROUND Button
25. TUNER STATION UP/DOWN Button
26. TUNING UP/DOWN Button
27. SPEAKER CHANGE LEVEL Buttons
28. VOLUME UP/DOWN Button
29. SLOW/F Button
30. PAUSE Button
31. STOP Button
32. SKIP FORWARD Button
33. PLAY Button
34. SEARCH FORWARD Button
35. ENTER Button
36. NAVIGATION ARROWS (< / > / ∧ / ∨)
37. SETUP Button
38. REPEAT Button
39. REPEAT A-B Button
40. ZOOM Button
41. ANGLE Button
42. CLEAR Button
43. NUMBER 0 TO +9 Button
44. POWER Button
45. FUNCTION Button
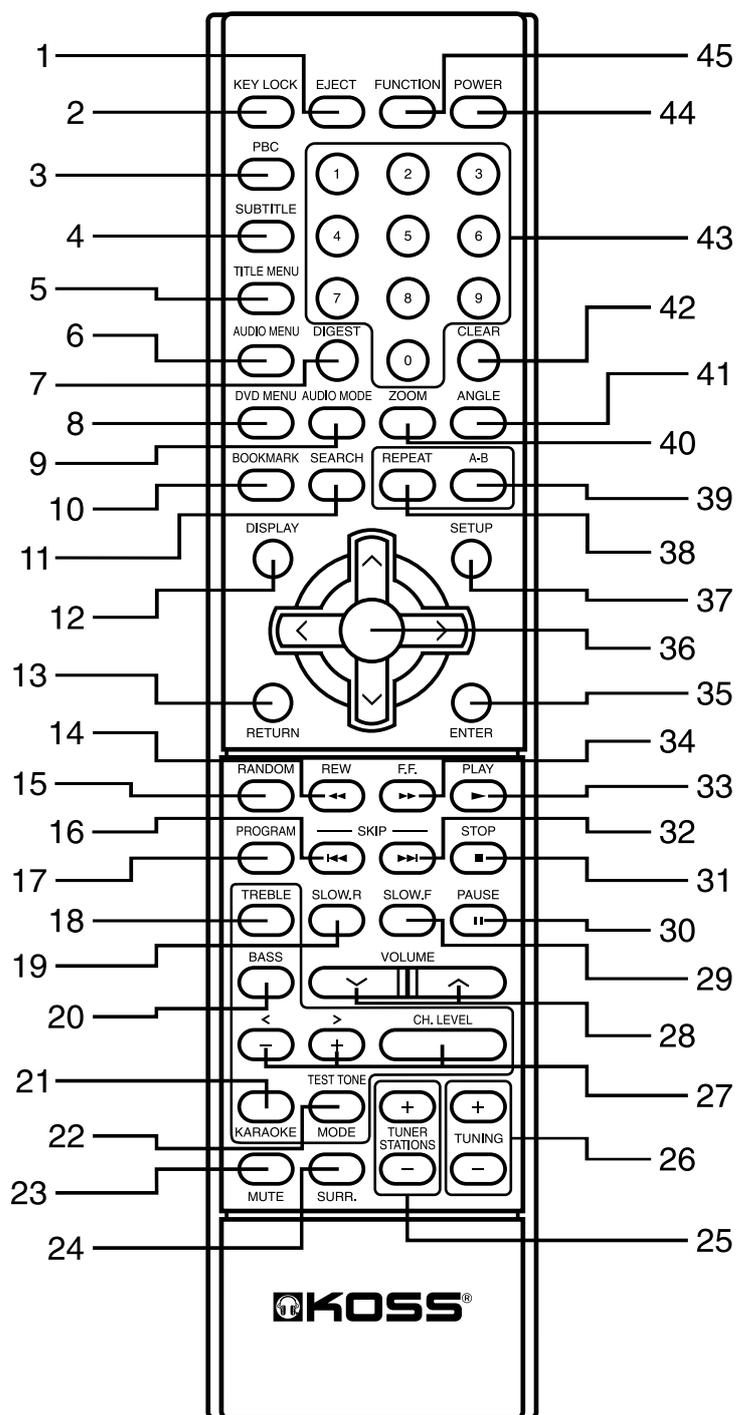
Important Safeguards and Precautions

Power Cord Protection

To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following:

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

Location and Handling

- Air vents are provided in the cabinet to prevent excessive temperatures inside the unit. Do not place this unit in closed spaces, cover it, or otherwise block the vents.
- Do not place this unit in direct sunlight, or near heat sources.
- Keep this unit away from strong magnetic objects.
- Do not insert or drop anything into this unit through the air vents as this could cause serious damage; possibly resulting in fire.
- Do not place any object containing water or other liquids on this unit. In the event that liquid should enter the cabinet, unplug this unit immediately and contact the retailer or service center immediately.
- Do not remove the cabinet. Touching parts inside the cabinet could result in electric shock and / or damage to the unit.
- Do not use the unit in a car. The operation can not guaranteed.

Non-Use Periods

- When the unit is not being used, turn the unit off.
- When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside

Do not put any foreign object on the disc tray.

Stacking

Place the unit in a horizontal position, and do not place anything heavy on it.

Condensation

Moisture may form on the pickup lens in the following conditions:

- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When the unit is suddenly moved from a cold environment to a warm one.

If moisture forms inside this unit, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

On Adjusting Volume

Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

If There is Noise Interference on the TV While a Broadcast is Being Received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the unit is left on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off the unit.

Service

- Do not attempt to service the unit yourself.
- Please call 1-800-287-4871 for the name of the nearest service center.

Copyright

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant laws covering copyright protection.

Copy protection

This DVD player supports Macrovision copy protection. On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Recommended measures for Optimum Performance

This unit is a precision device that is constructed using extremely accurate technology. Soiling or friction affecting the pickup lens or disc drive can impair the image quality. In the worst case, neither video nor audio will be played back. To obtain optimum picture quality, the player should be checked (cleaning and replacement of some parts) every 1,000 hours. Note that this period varies depending on the environment (temperature, humidity, dust, etc..) in which the player is used.

Do not attempt to clean the pickup lens yourself.

Types of Discs That Can be Played on This System

This player can playback discs bearing any of the following marks:

DVD VIDEO DVD VIDEO	COMPACT disc DIGITAL AUDIO
DVDs 12 cm disc / 8 cm disc	Audio CDs 12 cm disc / 8cm disc
See Note-1 See Note-2 See Note-3	• Supports MP3,CD-R, CDR-W, CD-DA, CD-G, KODAK PHOTO CD

Note-1

- DVD players and discs are designed with region numbers which dictate the regions in which a disc can be played. If the region number on the disc you want to play does not match the region number in your DVD player, you will not be able to play the disc. If you try to play the DVD, the message "WRONG REGION" will appear on the screen display.

The region number for this DVD player is [icon].
The region code of this player is printed on the rear of the unit.

Sample disc display:

Disc playable in all regions
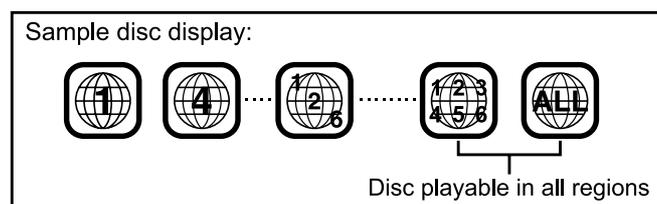
Note-2

- The specific playback functionality for some DVD and video CD discs is determined by the disc manufacturer. Because this DVD player plays disc data in accordance with the disc manufacturer's guidelines, some functions may not be available on some discs. Be sure to read the instructions provided with the disc.

  The "Prohibited" icon [icon] displayed during DVD player operation indicates that such manufacturer imposed restrictions apply.

Note-3

- The audio on a DVD disc recorded in MPEG version 2.0 format may not play properly on some discs, only the image will appear in this case.

Discs that Cannot be Played

- You cannot play CD-EXTRA, CD-ROM and DVD-ROM discs.
- You cannot play illegally produced discs.
- You cannot play scratched discs.
- You cannot play discs that are dusty, soiled or marked with fingerprints.

Icons used on DVD discs

Sample Icons:

Number of recorded audio tracks	Number of subtitles recorded	Screen aspect ratic recorded	Disc with Multiple camera angles	Region code indicator
2 — 1. English 2. Spanish	2 — 1. English 2. Spanish	16:9 LB	2	(globe)
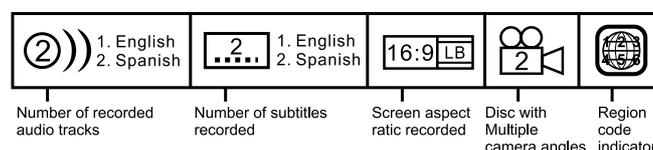
Glossary of Disc Terms

- Title (DVD)
  The longest sections of picture or a music piece on a DVD, a movie, etc., for a picture piece on a video disc; or an album, etc., for a music piece on an audio disc. Each title is assigned a title number enabling you to locate the title you want.

- Chapter (DVD)
  Sections of a picture or a music piece that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want. Some discs may not contain chapters.

For example	
Title 1	Chapter 1
	Chapter 2
Title 2	Chapter 1
	Chapter 2
	Chapter 3
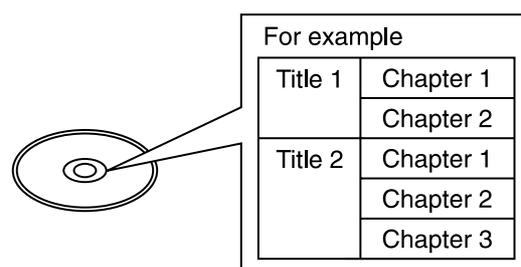
- Track (Audio CD)
  Sections of a music piece on an audio CD. Each track is assigned a track number enabling you to locate the track you want.

Notes on Discs

Disc handling precautions
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
  If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.
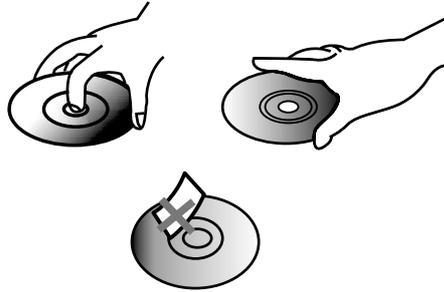
- Do not expose the disc to direct sunlight or sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be considerable rise in temperature inside the car.
- After playing, store the disc in its case.
- Do not write on the label side with a ball-point pen or other writing utensils.
- Be careful not to drop or bend the disc.

Disc cleaning precautions
- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
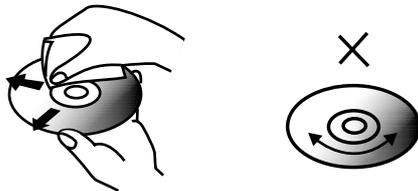
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Disc installing precautions
- Do not install more than 1 disc on disc tray.
- Do not place the disc on the tray up-side down.
- Do not try to close the disc tray when the disc is not installed and centered properly.

Disc   Disc tray
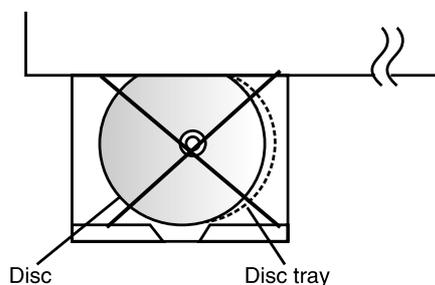
Installation

This section describes how to connect the system to the speakers, a TV monitor with audio / video input jacks and other video components. You cannot connect this system to a TV monitor which does not have a video input connector. Be sure to turn off the power of each component before making the connectors.

Unpacking

Check that you have the following items:
- Main unit (1).
- Subwoofer (1).
- Speakers (5).
- Remote control (1).
- Video cable (4 feet x 1).
- AM loop antenna (1).
- FM antenna (1).
- Batteries (2).

Inserting Batteries into the Remote Control

You can control the system using the supplied remote. Insert two "AA" batteries by matching the + and - on the batteries with the markings in the battery compartment. When using the remote, point it at the remote sensor on the front panel of this system.
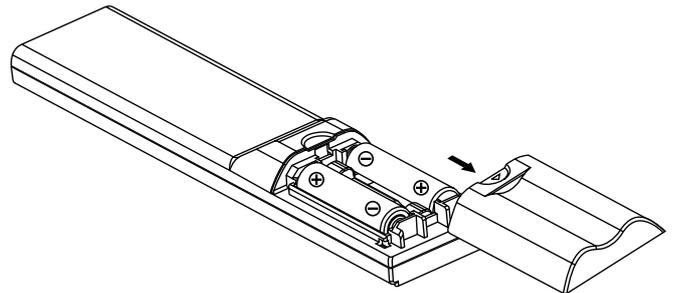
Notes:
- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so many cause a malfunction.
- If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.

Speaker System Connection

Connect the supplied speaker system by matching the colors of the terminals and those of the cords.

The speaker cables and speaker terminals are color-coded for easier connection.

- Connect the Front Left Speaker with White/Black cables to the "SPEAKER - FRONT L" White/Black terminals on the back panel.

- Connect the Front Right Speaker with Red/Black cables to the "SPEAKER - FRONT R" Red/Black terminals on the back panel.

- Connect the Rear Left Speaker with Blue/Black cables to the "SPEAKER - REAR L" Blue/Black terminals on the back panel.

- Connect the Rear Right Speaker with Gray/Black cables to the "SPEAKER - REAR R" Gray/Black terminals on the back panel.

- Connect the "CENTER" Speaker with Green/Black cables to the "SPEAKER CENTER" Green/Black terminals on the back panel.

- Connect the "SUBWOOFER" with Pink/Black cables to the "SUBWOOFER" Pink/Black terminals on the back panel.

SUBWOOFER

(Right) FRONT SPEAKER

(Left) FRONT SPEAKER

CENTER SPEAKER

REAR SPEAKER (Right)

REAR SPEAKER (Left)
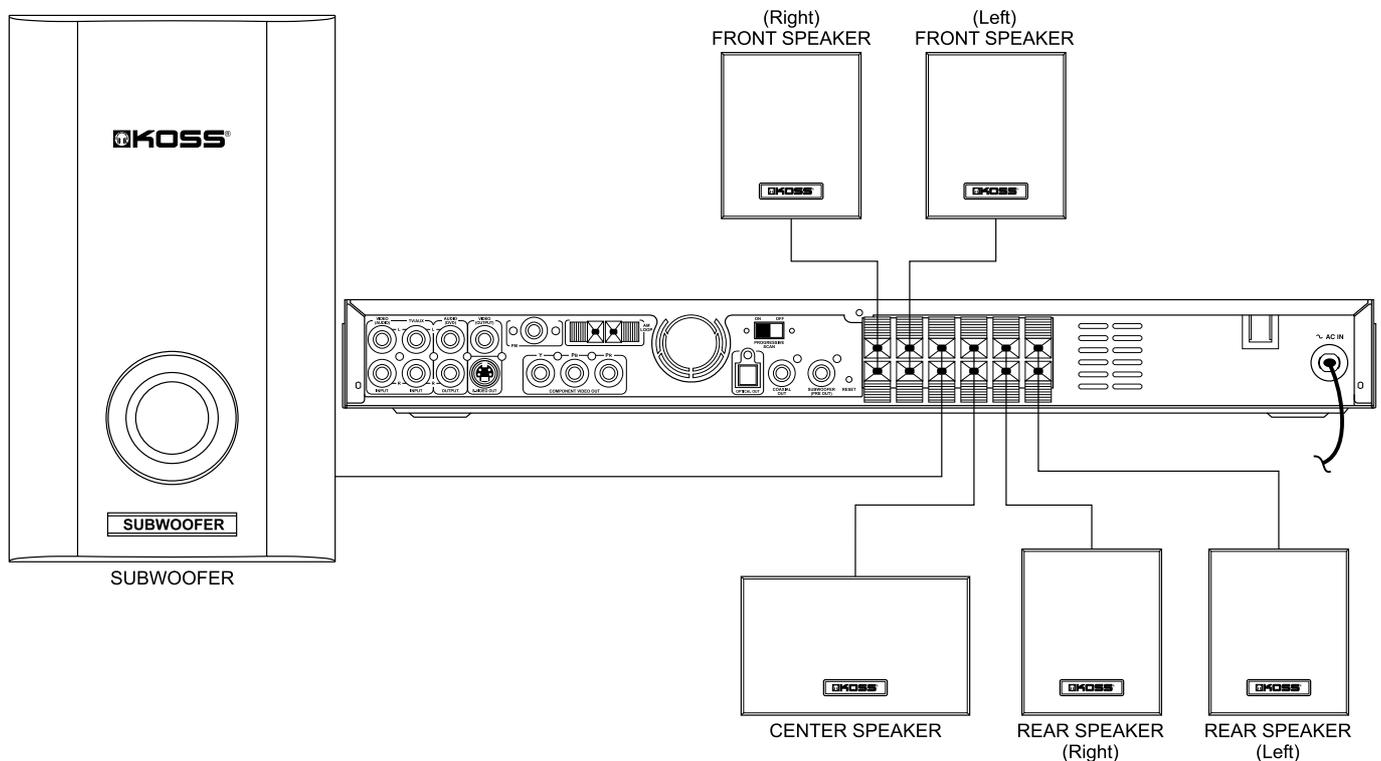
To avoid short-circuiting the speakers

- Make sure the stripped end of each speaker cord does not touch another speaker terminal or the stripped end of another speaker cord.

- Stripped cords are touching each other due to excessive removal of insulation.

Examples of poor connection of the speaker cord

- Stripped speaker cord is touching another speaker terminal.
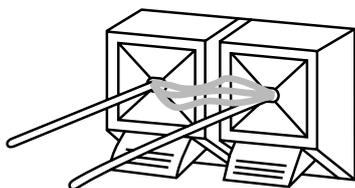
Antenna Connections

FM ANTENNAS

FM Indoor Antenna

If you live reasonably close to a transmitter and want to use the provided lead-type FM antenna, you will connect it directly to the "FM 75 $\Om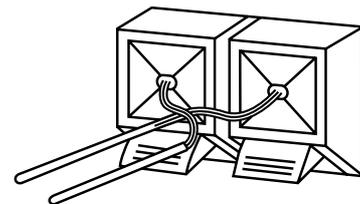ega$" socket at the back of the main unit. See the LOCATION OF JACKS AND TERMINALS page for details on the location of this socket. Fit the metal sleeve of the lead-type antenna over the core (center) conductor of the (FM 75 Ω) socket. Be sure to fully extend the FM antenna and keep it as horizontal as possible.

Lead-type FM Antenna (75 Ω provided)
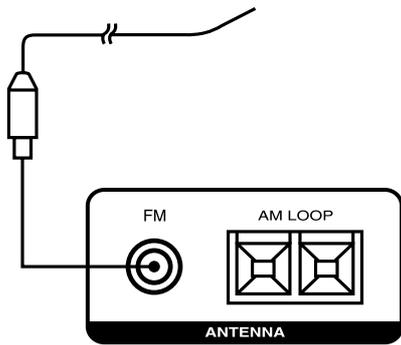
Outdoor FM Antenna (75 Ω)

FM Outdoor Antenna

In an area where FM signals are weak, it will be necessary to use a 75 Ω unbalanced-type outdoor FM antenna using the optional matching transformer, as shown. Generally, a 3-element antenna will be sufficient, if you live in an area where the FM signals are particularly weak, it may be necessary to use one with 5 or more elements. Check the instructions provided with the outdoor antenna for details on how to connect it to this product.

AM Indoor Loop Antenna

To stand the antenna on a surface, fix the claw to the slot.
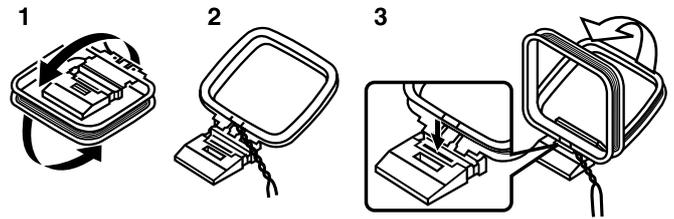
A high-performance AM loop antenna provided with the receiver is sufficient for good reception in most areas. Connect the loop antenna's wires to the AM antenna terminals as shown. Place the antenna on a shelf, for example, or hang it on a window frame, etc., in the direction which gives the best reception. Place it as far away as possible from the entire system, speaker cords and the power cord, to prevent unwanted noise.
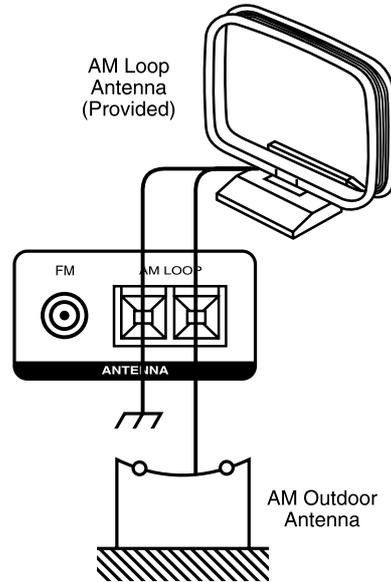
AM Outdoor Antenna

If the provided AM loop antenna does not deliver sufficient reception (because you are too far from the transmitter or in a concrete building, etc.), it may be necessary to use an outdoor AM antenna. Check the instructions provided with the outdoor antenna for details on how to connect it to this product.

Note: when connecting an outdoor AM antenna, do not disconnect the AM loop antenna.

TV and Optional Component Connections

Required cords

● Video cord for connecting a TV set (included).

yellow ⊏▭▥▥▥▭──────▭▥▥▥▭▷ yellow
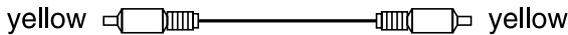
● Audio cords (not included).

When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.

red ⊏▭▥▥▥ ▥▥▥▭▷ red
white ⊏▭▥▥▥ ▥▥▥▭▷ white
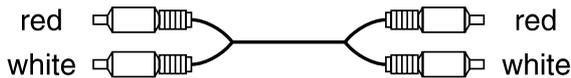
Notes:

● **TV Connection – Normal (Connection Cable Included):**

To view the video from DVD discs on your TV set connect the Video Out jack of this system to the Video In jack of your TV set. The Video jacks are usually colored yellow. Use the included video cable with yellow plugs on each end.

● **TV Connection- S-Video (Cable Not Included):**

If your TV set has an S-Video Input Jack you can connect your TV to the S-Video Out Jack on the back of this system. (The S-Video connection cable is not included). We recommend using the S-Video connection if your TV has an S-Video input jack.

● **TV Connection-Audio (Connection Cables Not Included):**

Connect the Left/Right audio output jacks of your TV set to the Left/Right audio input jacks (TV/AUX INPUT) of this system to listen to your TV through the supplied speakers.

● **VCR Connection-Audio (Connection Cables Not Included):**

To listen to the sound from your stereo VCR through the speakers of this system, connect the Left/Right audio output jacks of your stereo VCR to the Left/Right audio input jacks (VIDEO (AUDIO) INPUT) of this system.
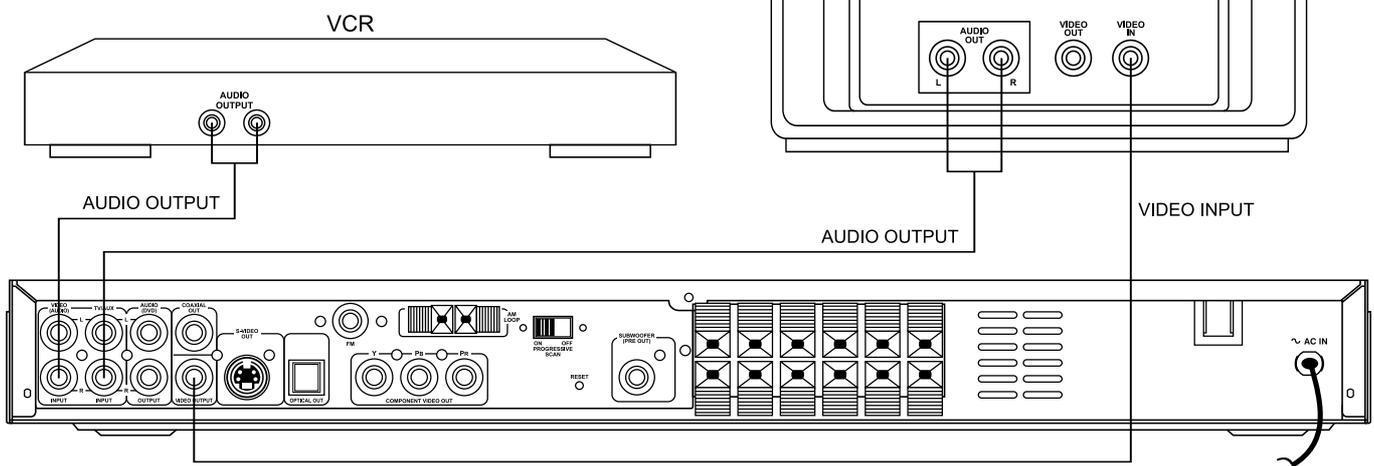
● **Basic Connection Diagram:**

The diagram below represents a typical connection. In this diagram you can view the picture from DVD movie discs on your TV set. You can also play the sound from your stereo TV set and the sound from your stereo VCR through the speakers of this system.

● **External Decoder Connection-Not Required:**

This DVD player has its own built in Dolby Digital decoder that provide digital 5.1 channel Surround Sound audio from DVD movies encoded with Dolby Digital soundtracks. No external decoders are required. We have also included Coaxial Digital Audio output jack which allows digital audio signals to be fed to an external Dolby Digital or DTS decoder if desired. The Coaxial digital audio connection cable is not included.

Connecting the AC Power Cord

Notes:

● The Power Requirement is: AC 120V, 60Hz.

● Connecting to power other than the one listed above may damage the system or cause abnormal operation.

● Before connecting the AC power cord of this system to a wall outlet, connect the speakers and other component cables to the system.

● Connect the AC power cords of your TV and any optional connect to a wall outlet.

TV and Optional Component Connections (Continued)

- **TV Connection-Component Video (Cable not Included)**

  If your TV set has a Component Video Input Jack you can connect your TV to the Component Video Out Jack on the back of this system. The Component Video will provide the best picture quality if your TV is equipped to handle Component Video signals. We recommed using the Component Video connection.
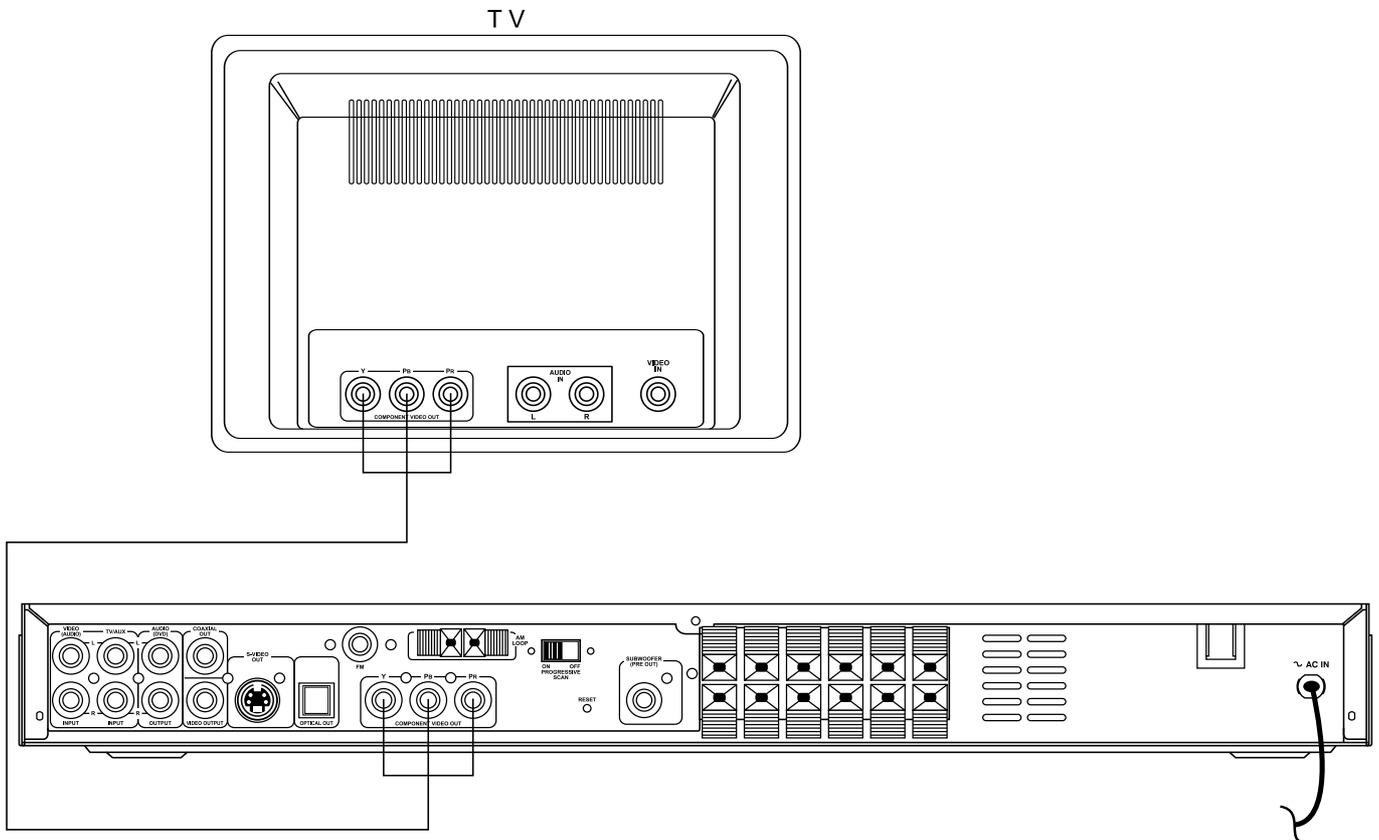
Progressive (Y, PB, PR) Video Out:

Use these jacks to connect to a TV with progressive video input jacks and then set the PROGRESSIVE SCAN switch to 'ON'. Progressive Scan is a video scanning system that displays all lines in a frame in one pass, as opposed to the traditional system, interlaced scan. This connection provides optimum quality. To ensure maximum picture quality use three video-grade cables for connections. Note that it is essential to match the color-coded connectors with a compatible TV.

525 Line Digital Progressive-Scan Component Video Output:

Compared to standard interlaced video, progressive scan effectively doubles the amount of video information fed to your TV or monitor. The result is a stable, flicker-free image. (Check your TV/monitor for compatibility with this feature.)

For the highest picture quality, try watching a DVD movie on a Progressive-Scan compatible TV.

Notes:
- If you connect a TV that is not compatible with a progressive scan signal and set the PROGRESSIVE SCAN switch to the ON position, you will not be able to see any picture at all. To regain the picture, you must shut the unit off and set the PROGRESSIVE SCAN switch to the OFF position. Then, turn the unit on and the picture will appear.
- Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user set the PROGRESSIVE SCAN switch to 'OFF'.

Turn OFF the power and remove the AC cord from the outlet when connecting the system.

Speaker Positioning Information

Your system is supplied with 5 compact sized satellite speakers and one subwoofer. The satellite speakers reproduce only the mid range and higher frequencies. All of the low frequency (bass) sounds are produced by the subwoofer. Proper positioning and placement of the speakers is important in order to provide the best surround sound experience. We understand that due to the size and shape of your listening room, and the location of your furniture, you may not be able to set up the speakers exactly as per the diagrams that follow. However these simple guidelines will help you maximize your home theatre experience.

- Although all 5 satellite speakers are the same size, the speaker cables are different lengths. The speaker cables are also color coded to match the color-coded speaker terminals on the back panel of the main unit. Refer to the connection diagram page for additional information.

- For best surround effects all 5 of the satellite speakers should be roughly the same distance from your usual listening position.
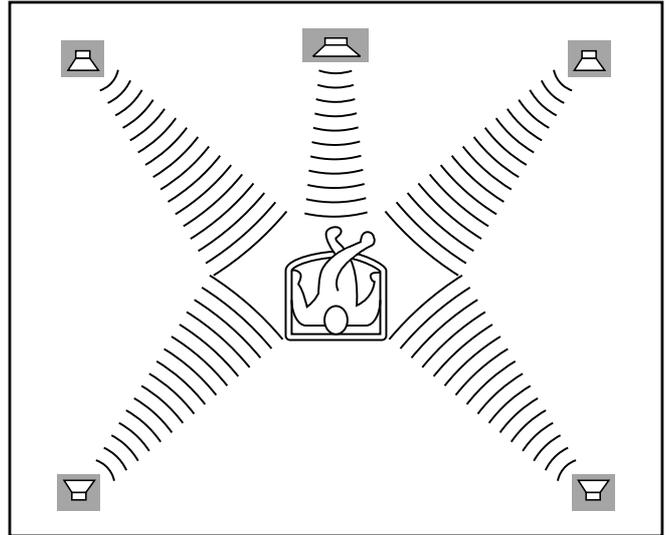
Position all 5 satellite speakers approxmately same distance from your listening position.

Typical Speaker Set Up
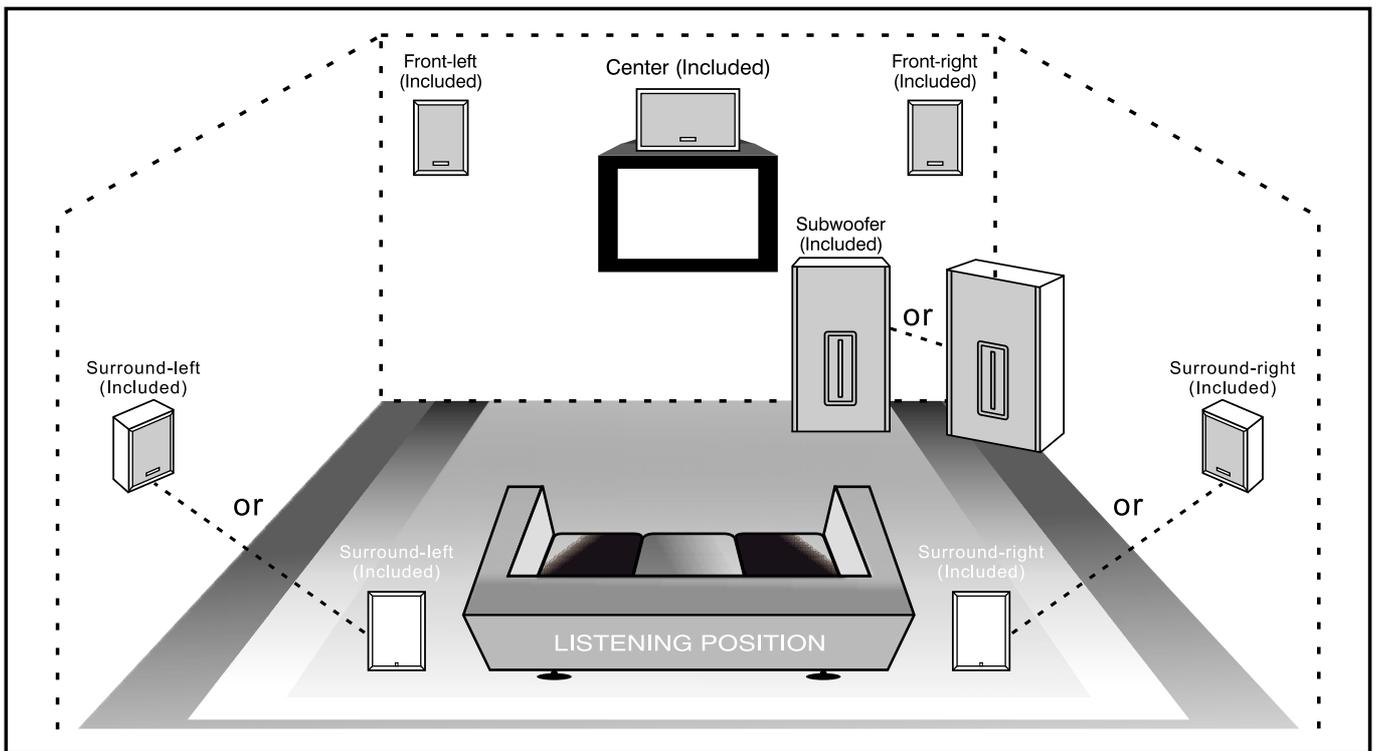
- All 5 satellite speakers approximately same distance from your listening position.
- Center speaker directly above (or below) TV screen. Left and right front speakers at same height as center speaker.
- Rear speakers either in line with, or behind listening position, approximately at ear level, or slightly above, when seated.
- Subwoofer on floor near TV, or in corner, facing the listening position.
- All speakers must be visible. Do not hide behind curtains, furniture, etc, as this will affect the sound.

Controls and Their Functions

Panel Operation
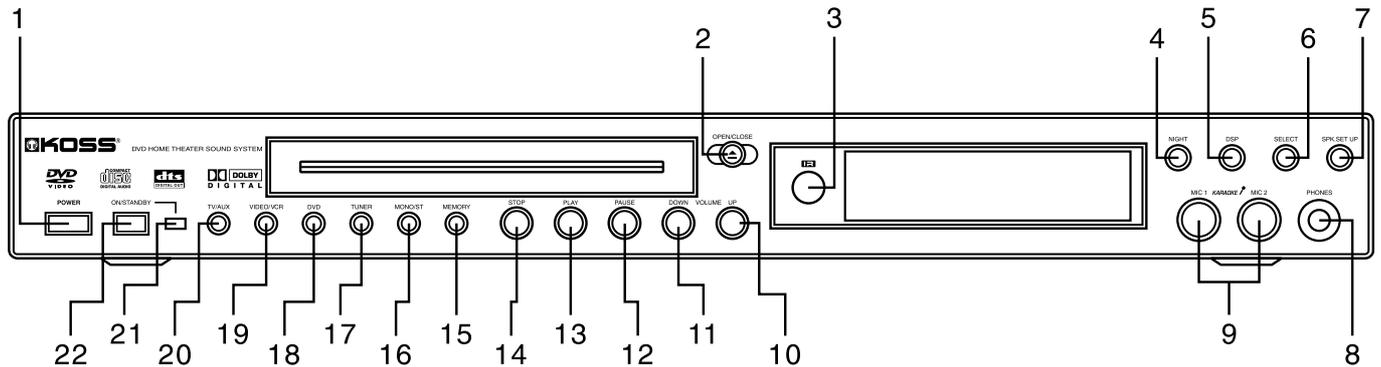
1. **MAIN POWER SWITCH**

   Press this button once to switch on the unit, a red LED indicator will light up. Press it again to switch off the power.

2. **OPEN/CLOSE BUTTON**

   Press to open or close the DVD/CD drawer to load or remove a disc.

3. **REMOTE SENSOR**

   Receives the commands from the remote control handset.

4. **NIGHT (The NIGHT function operates only when the Dolby Digital Surround mode is activated.)**

   If you play a movie at low volume at night, set this function to "ON" to narrow the dynamic range of the sound and make it easier to hear.

5. **DSP MODE BUTTON**

   Choose Prologic, 3 Stereo, Concert, Living, Hall, Bathroom, Cave, Arena, Church or Stereo when playing 2-channel disc. Choose Dolby Digital or 2 channel stereo when playing 5.1 channel disc.

6. **SELECT BUTTON**

   Change speaker size and delay time.

7. **SPEAKER SETUP BUTTON**

   Choose speaker type.

8. **PHONES**

   For private listening, insert optional (not included) headphones (1/4 inch plug) into the PHONES jack, and then all speakers are automatically disconnected.

   Note: When the headphone is used, the output will change to STEREO automatically.

9. **MIC 1 / MIC 2 JACKS**

   Plug the Microphone into either MIC 1 or the Mic 2 jack. Set the microphone ON/OFF switch to the ON position.

10. **VOLUME UP BUTTON**

    Raises the volume of all 6 speakers.

11. **VOLUME DOWN BUTTON**

    Lowers the volume of all 6 speakers.

12. **PAUSE BUTTON**

    Pause the disc.

13. **PLAY BUTTON**

    Play the disc.

14. **STOP BUTTON**

    Stop playing the disc or open the tray door.

15. **MEMORY BUTTON**

    Program preset AM/FM radio stations.

16. **MONO/STEREO BUTTON**

    When listening to FM radio press to switch between FM Stereo and FM mono mode.

17. **TUNER (BAND) FUNCTION SELECTION**

    Press to select the Tuner function and listen to the radio. After selecting the Tuner function press the Tuner button again to switch between FM and AM bands.

18. **DVD (CD) FUNCTION SELECTION**

    Press to select the DVD or CD playback modes.

19. **VIDEO/VCR FUNCTION SELECTION**

    If you have connected the Audio Out jacks of your stereo VCR to the AUDIO INPUT jacks on the back of the unit, press the VIDEO button to listen to the sound of your VCR through the speakers of this system.

20. **TV /AUX FUNCTION SELECTION**

    If you have connected the Audio Out jacks of your stereo TV to the TV/AUX INPUT jacks on the back of this unit, press the TV button to listen to the sound of your TV through the speakers of this system.

21. **ON/STANDBY INDICATOR**

    Lights up when the system is in Standby ('OFF') mode. Turns off when the system is in operating ('ON') mode.

22. **ON/STANDBY BUTTON**

    Turns the system on or off. (Main Power Switch must be in the 'On' position.)

Presetting Radio Stations

You can preset up to 30 of your favorite AM and FM stations, in any combination, in the tuner memory for easy recall.

1. Press the ON/STANDBY button on the front panel or the POWER button on the remote control to turn the system 'On'.

2. Press either the TUNER button on the front panel or the FUNCTION button on the remote control to select the Tuner function. Press again to switch between AM and FM bands if necessary.

3. Tune to the first station you wish to preset by either the Manual or Automatic tuning method as follows:

- Manual Tuning - repeatedly press the TUNING + or - buttons on the remote control until the desired frequency appears on the display. (Note: You must use manual tuning if your are trying to tune to a weak station.)

- Automatic Tuning - press and hold the TUNING + or - button on the remote control until the display begins to scan down or up, and then release the buttons. The Tuner will stop on the first strong station it finds. Repeat this process until it stops on your desired station.

4. When the desired station appears on the display (Example: FM 103.50 MHZ) press the MEMORY button button on the front panel. (Note: There is no MEMORY button on the remote control.) The PRESET indicator and channel "01" indicators will flash in the display for 5 seconds.
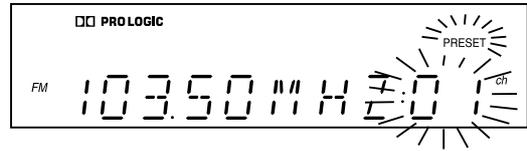
When the indicators stop flashing, the station is memorized in Preset Memory number 1.

5. Repeat step 3 to tune to the next station to be memorized. Press the MEMORY button on the front panel and while the PRESET and channel "01" indicators are flashing press the TUNER STATIONS + or - buttons on the remote control to select preset channel memory number "02" or any other preset number from 02 to 30. When the indicators stop flashing the station is memorized.

6. Repeat step 5 until you have stored up to 30 stations in the tuner memory.

Recalling Preset Stations

1. Turn the system 'On' and select the Tuner function.

2. Press the SELECT button on the front panel or the TUNER STATIONS + or - buttons on the remote to scroll through all of the preset station memories to find your desired station.

You may also use the number keys on the remote control to go directly to any of the preset stations. To select preset stations 1 through 9, press the corresponding number button. To select stations from 10 to 30, press the corresponding two number buttons.

Changing Preset Stations

Tune to the new station you want to memorize. Press the MEMORY button on the front panel. While the PRESET and "01 CH" indicators are flashing, press the TUNER STATIONS + or - buttons to select the memory number you wish to change. When the indicators stop flashing the new station is now memorized and the previous station is deleted.

Last Station Memory

The Tuner always remembers the last station that you were listening to before you switched to a different function or shut the power 'Off'. It will return to that same station when you turn the system 'On' again and select the Tuner function.

Note: If the AC power is disconnected for an extended period of time all of the stations in the tuner memory may be deleted. You will have to store them in memory again when power is restored.

Playing Discs

This chapter describes how to play a DVD/CD/MP3 disc.

OPEN/CLOSE

ON/STANDBY DVD STOP PLAY PAUSE
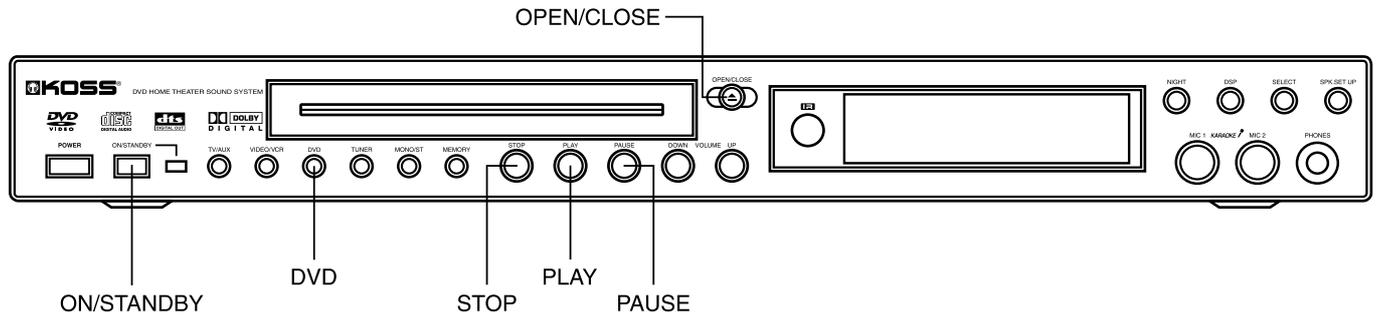
Basic Playback

IMPORTANT:

Please note that some DVD movie discs may not have all the features described in this chapter. For example, older movies may not allow you to select multiple camera angles. Refer to the instructions or liner notes that are included with each disc to determine what features and operations are available on that particular disc.

1. Turn on your TV and select the "Video Input" or "External Source" so that you can view the picture from this system on your TV. Refer to the TV instruction manual if necessary.

2. Press the ON/STANDBY button on the front panel of this system or POWER button on the remote control. This Standby indicator goes off and the main display comes on. Note: The main power switch on this system must be 'On'.

3. If necessary, press the DVD function button on the front panel of this system, or the FUNCTION button on the remote control to select the DVD function. The DVD logo screen should appear on your TV.

4. Press the OPEN/CLOSE button on the front panel of this system or EJECT button on the remote control to open the disc drawer. Place a disc on the tray label side up. Be sure that the disc is correctly centered in the disc pocket. Press the OPEN/CLOSE button again to close the drawer. The player begins loading the disc. An operating massage will appear on the TV screen.

When a disc is inserted the following will occur depending on the type of disc inserted.

- When playing a DVD.
  A DVD menu or title menu may appear on the TV screen.
- When playing a CD or MP3.
  The CD will begin to play the disc from the first track.

Note: While the disc is loading, the player will not respond to any commands.

5. On most DVD movie discs a 'Disc Menu' will appear on your screen. This allows you to jump to a specific chapter or scene, or to view other special features that the director may have included on the disc. Use the Navigation buttons (< / > / ∧ / ∨) on the remote control to highlight the desired action and then press the ENTER button to select it. Or you may simply press the PLAY button to start playback at the beginning of the movie. Note: The appearance of the DVD Menu Screens varies from disc to disc. Some older discs may not have any DVD Menu Screen and will just begin playback of the movie automatically.

EJECT

FUNCTION

POWER

NAVIGATION BUTTONS ∧/∨/</>

PLAY

STOP

PAUSE

◄◄ /►►

TUNING STATION +/−

◄◄ /►►I

TUNING +/−
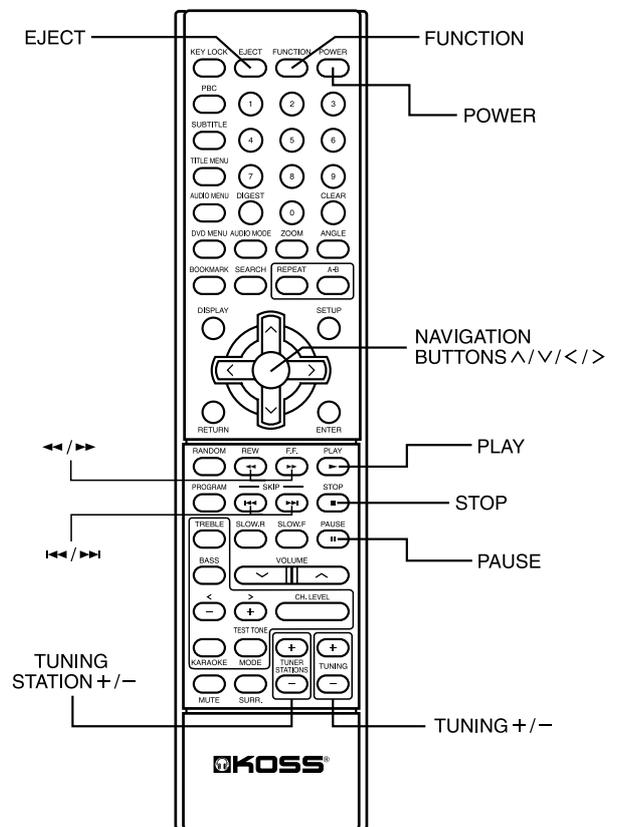
Basic Playback (Continued)

Note:
When you play A DVD movie disc, the player will automatically select DOLBY DIGITAL audio mode. If the DVD disc is recorded with Dolby Digital soundtrack you will hear sound from all 5 satellites plus subwoofer. If the DVD disc does not come with DOLBY DIGITAL and comes either Dolby Surround, Dolby Pro Logic or 2 channel Stereo soundtrack, the subwoofer will not operate. In this case press the DSP MODE button on the front panel or the remote control to select 2 CH. STEREO audio mode. This will activate the subwoofer.

6. To pause temporarily during playback press PAUSE button. To resume normal playback press the PLAY button again.

7. To stop playback press the STOP button. The DVD logo screen appears on your TV.

8. If you are finished viewing, press the OPEN/CLOSE button on the front panel of this system or the EJECT button on the remote control to open the drawer and remove the disc. Press again to close the drawer.

9. Press the STANDBY button to return the system to the Standby mode. The DVD logo screen disappears, the main display goes off, and the Standby indicator comes on again.

Note: Don't forget to turn off your TV.

Slow Motion Playback (DVD Disc Only)

You may view a DVD movie disc in slow motion, either forward or backward. There are 4 slow motion speeds 2X, 4X, 8X and 16X the higher the number, the slower the speed. During playback of a DVD movie disc press the SLOW/F (SF) or SLOW/R (SR) buttons repeatedly to cycle through the following options.
SF2X → SF4X → SF8X → SF16X → Normal Playback
SR2X → SR4X → SR8X → SF16X → Normal Playback

Note: On some DVD movie discs the Slow Motion option may not be available. If you press the SLOW/F or SLOW/R button during playback of a disc which does not have this featurethe "Prohibited" Icon 🖐 may appear on the TV screen.

Frame By Frame Advance ('Step' Function)

During DVD playback you can press the PAUSE button repeatedly to advance the disc 'step by step', one frame at a time. Press the PLAY button to resume normal playback.

High-Speed Search (Fast Forward or Fast Reverse)

During DVD or CD playback you may search forward or in reverse to locate a specific portion of a chapter or track. When you locate the desired portion press PLAY button to resume normal speed forward playback. There are 4 search speeds for forward and reverse. The higher the number, the faster the search speed. The speed indicator will appear on the TV screen and on the front panel display.

During playback press the ▶▶ button to begin forward high-speed search, or press the ◀◀ button to begin reverse high-speed search.

Pressing the ▶▶ or ◀◀ buttons repeatedly will cycle the player through the following search speeds:
DVD Forward - FF2X → FF4X → FF8X → FF16X → Normal Playback
DVD Reverse - FR2X → FR4X → FR8X → FR16X → Normal Playback
CD Forward - FF2X → FF4X → FF8X → FF16X → Normal Playback
CD Reverse - FR2X → FR4X → FR8X → FR16X → Normal Playback

Note: During CD High Speed Search when the player reaches the end of a track the high speed search function is canceled automatically and the player starts playing the next track at normal speed.

Skipping Chapter or Tracks

During DVD playback press the ▶▶| (Fwd) or |◀◀ (Rev) button to skip forward or backward to the beginning of the next chapter on the disc.

During CD playback press the ▶▶| (Fwd) or |◀◀ (Rev) button to skip forward or backward to the beginning of the next track on the disc.

MP3 Basic Operations

1. Prss the OPEN/CLOSE button to open the disc tray.

2. Insert an MP3 disc with the label side facing up on the disc tray.

3. Press the OPEN/CLOSE or EJECT button to close the dsic tray.

4. After loading, the Root/Folder Menu as shown below will appear on the TV screen.

Playtime | Selected track total time | Total tracks | Play Indicator | Equalizer Spectrum

```
00:54      03:59       128        ▶
003/011 ▁▂▃▄▅▆▇█    ||||||||||||||||

📁  Folder

📁  ∞
📄  Audio Track 1
📄  Audio Track 2
📄  Audio Track 3
```
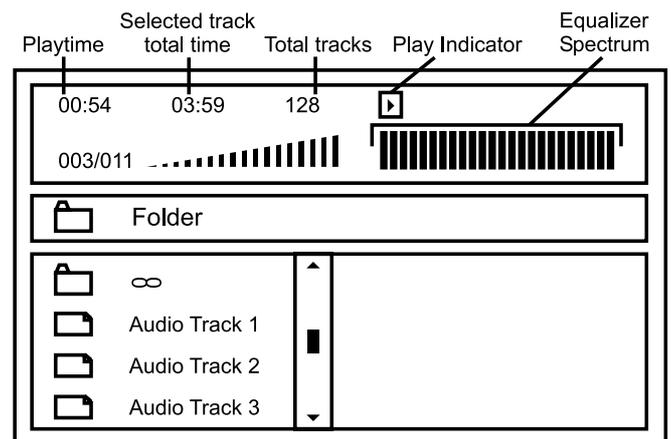
5. Press the (∧ / ∨) Navigation button to select your desired track or folder and press Enter to confrim. Once you confirm a track (not a folder), the player will play your selected track.

6. Press the REPEAT button repeatedly and "repeat One" or "Repeat Folder" will appear on the TV screen and you can repeat playing 1 track or the whole folder continuously.

Adjusting the Speaker Levels (Test Tone)

The levels of the five satellite speakers have been preset at the factory at "0 db". This means that if you were able to position all of the satellites the same distance from your normal listening position as recommended, the sound from all five satellites will sound equally loud at your normal listening position. This "equality" in the satellites will provide the most realistic surround sound experience. However if, because of the size or shape of your listening room, you are not able to position all of the satellites an equal distance from your listening position, the TEST TONE function will allow you to Increase or decrease the levels of the center and rear speakers to achieve the proper surround sound balance. Note: You cannot change the levels of the left front and right front speakers with the TEST TONE function.

After you have positioned the 5 satellite speakers in the listening room you can adjust the Center and Rear speaker levels with the Test Tone as follows:

Note that in order for the TEST TONE function to work, the system needs to be in stop mode AND the disc tray must be empty.

1. Turn on the system and your TV.

2. Sit in your normal listening position with the remote control. You will be using the following buttons on the remote control to make these adjustments:

3. Press the TEST TONE/MODE button on the remote. You will hear a "hissing" sound (pink noise) from the left front speaker for a few seconds. The hissing sound will move from speaker to speaker as follows: Left → Center → Right → R Rear → L Rear, etc. If necessary press the VOLUME ∧ button to increase the master volume level so you can hear the sound more clearly. Allow the sound to travel around the five satellites several times. If the sound level from all five satellites sounds approximately the same, no further adjustment is necessary. Press the TEST TONE/MODE button again to cancel the Test Tone function. It is not necessary for you to make any further adjustments.

4. If the sound level of the Center of Rear speakers is higher or lower than the Left front and Right front speakers you can increase of decrease the level of those speakers with the CH.LEVEL + or - buttons. Wait until the "hissing" (pink noise) sound is coming from the speaker which needs to be adjusted, and then immediately press the CH.LEVEL + or - buttons to increase or decrease the level of that speaker. The range of adjustment is + or - 10 dB in 1 dB steps.

5. After you make the necessary adjustments allow the pink noise to circle the room a few more times to confirm that the level of all five satellites sounds the same at your normal listening position. Re-adjust if necessary.

6. When you are finished with the level adjustments press the TEST TONE/MODE button again to cancel the test tone function.


TEST TONE / MODE

VOLUME ∧ / ∨

CH. LEVEL + / −
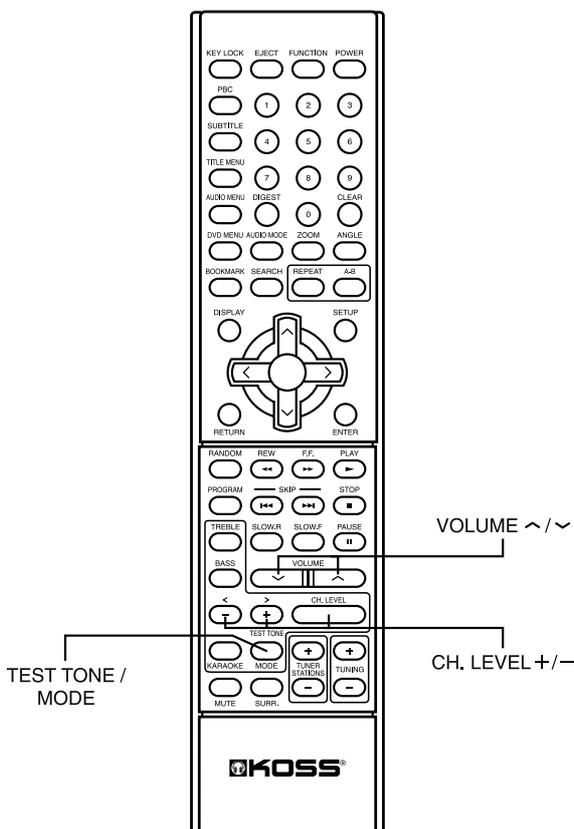
Understanding the Individual DVD Disc Menu

Most DVD movie discs will automatically display either a "Title Menu" or a "Root Menu" before the actual movie begins to play. When these menus appear at the beginning of a movie the "PLAY" or "PLAY MOVIE" command will usually be highlighted. If you press the PLAY or ENTER button on the remote the menu screen disappears and the movie begins to play.

However these menu screens also allow you to perform other functions such as "Language Selection", "Scene Selection", "Audio Setup", "Subtitles", view "Extra Features", etc. The actual options that may be contained within the Title Menu or the Root Menu will vary from disc to disc.

When the "Title Menu" (sometimes called "Main Menu") or "Root Menu" appears at the beginning of a movies, use the Navigation buttons (< / > / ∧ / ∨) to "highlight" or select a particular option and then press the ENTER button. For example, if the menu contains a Scene Selection option, and you select that option, you will usually be presented with a menu of scenes so that you can begin playback at a specific scene. Use the Navigation buttons to "highlight" the scene you want and then press the ENTER button to begin playback on that scene.

Once the movie has begun you can return to these Menu screens by pressing the appropriate buttons on the remote control as follows:
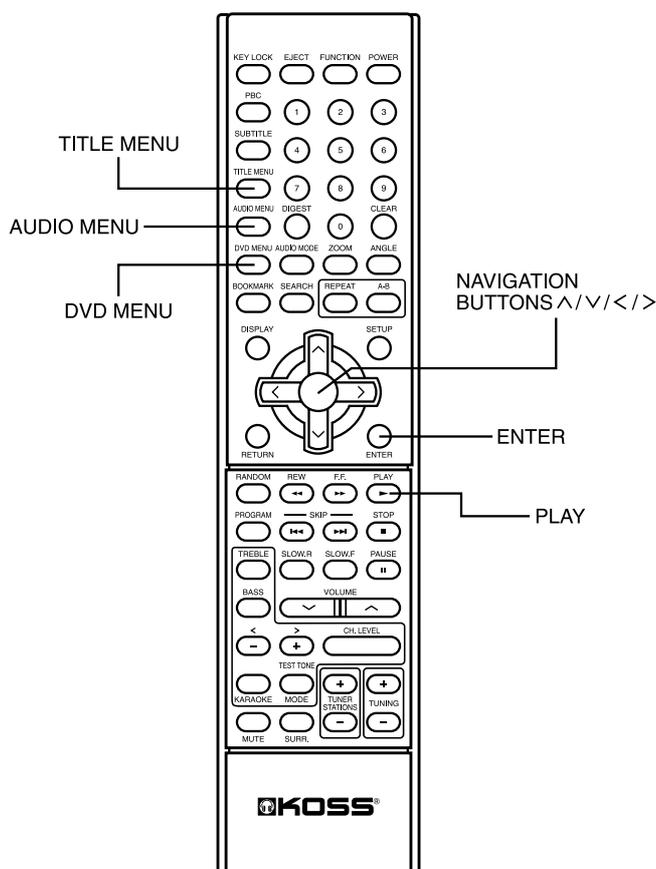
Using the Title Menu

1. Press the TITLE MENU button to return to the Title Menu (or Main Menu). "TITLE MENU" will appear on the screen for a few seconds and then the Title Menu or Main Menu will appear.

2. Use the Navigation buttons (< / > / ∧ / ∨) to "highlight" or select a particular option and then press the ENTER button.

Notes:
- If you see the 'Prohibited' icon when you press the TITLE MENU button that means that you cannot access the Title Menu on this disc, or this disc does not include a Title Menu.

- Depending on the disc you may also be able to use the number buttons to select a particular scene or chapter directly.

- On some DVD discs if you press the TITLE MENU button playback will restart from the beginning of the disc.

Using the Root Menu

1. Press the DVD MENU button to return to the Root Menu. "ROOT MENU" will appear on the screen for a few seconds and then the Root Menu or Main Menu will appear.

2. Use the Navigation buttons (< / > / ∧ / ∨) to "highlight" or select a particular option and then press the ENTER button.

Notes:
- If you see the 'Prohibited' icon when you press the DVD MENU button that means that you cannot access the Root Menu on the disc, or this disc does not include a Root Menu.

- Depending on the disc you may also be able to use the number buttons to select a particular scene or chapter directly.

Using the Audio Menu

On some DVD discs you can access and change the Audio Setup during playback without returning to the Audio Setup Page in the Setup Menu.

Press the AUDIO MENU button on the remote control. If the disc allows this function you will see a display at the top of the screen which will show the current audio language and the type of audio output such as "5.1" (Dolby Digital), 2CH (Stereo), etc. Continue pressing this button until the screen shows the desired language and audio output. The change will be made automatically when the display disappears.

Note: If you see the 'Prohibited' icon when you press the AUDIO MENU button that means you cannot access the Audio Setup menu during playback on this disc.
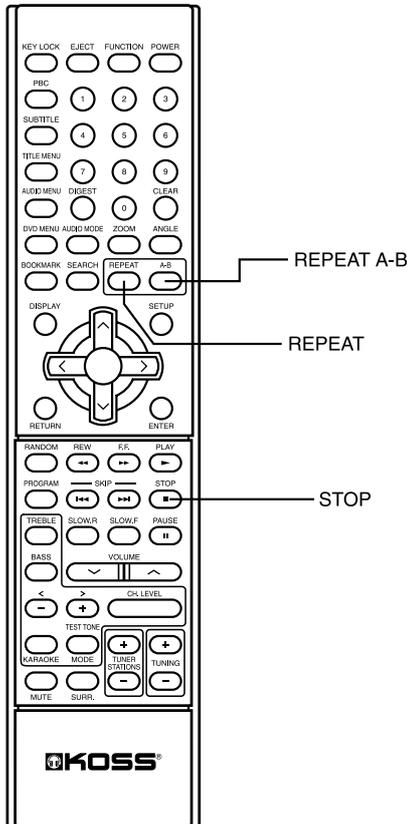
Repeat Playback

You can play all of the chapters in a title or an entire DVD disc repeatedly.

You can play all tracks on an audio CD repeatedly.

You can also play a single title, chapter or track repeatedly.

In program play mode, the system repeats the chapters or tracks in the programmed order.

REPEAT A-B

REPEAT

STOP

1. Press the REPEAT button while playing a disc.

2. If you are playing a DVD continue pressing the REPEAT button to select one of the following repeat modes in sequence: Chapter Repeat On → Title Repeat On → Repeat Off.

3. If you are playing a CD continue pressing the REPEAT button to select one of the following repeat modes in sequence: Repeat One Track → Repeat All Tracks → Repeat Off.

The front panel display will show the following message:

[REPEAT 1]: means Chapter Repeat or Repeat one Track.

[REPEAT]: means Title Repeat or Repeat All Tracks.

Notes:
- You cannot select repeat playback while the disc is stopped.
- Some DVDs do not allow repeat playback function.

A-B Repeat Playback

You can play a specific portion in a chapter or track repeatedly. This is useful when you want to memorize lyrics or repeatedly watch a portion of the DVD or CD over and over.

1. When playing a disc, press the A-B button one time to set the starting point "**A**" of the specific portion you want to play repeatedly. The "[A-]" indicator appears on the front panel display.

2. When reaching the end point "B" you want, press the A-B button a second time. The [A-B] indicator appears on the front panel display. The player starts to play the specific portion from point "A" and will continue playing this portion repeatedly until you cancel the A-B repeat function.

3. Press the A-B button again to cancel this setting and resume playback in normal order.

Notes:
- The point "A" and "B" can be set only in the same Title (DVD) or Track (CD).
- You can set A-B repeat on only one specific portion at a time.
- The A-B repeat is canceled when;
  - you press the STOP button twice to completely stop playback.
  - you skip Title, Chapter or Track.
  - you open the disc tray.
  - you turn the power off.
  - the A-B button is pressed again.
- Some DVDs do not allow A-B repeat playback function.

Program Play (Audio CDs Only)

You can play the contents of the disc in the order you want by arranging the order of the tracks on the disc to create your own program. One program can be stored in the system and contain up to 20 tracks.

Notes:

- This function is not available for DVD and MP3 disc.

- We recommend that you turn your TV 'On' while programming a CD since the Program Numbers only appear on the On Screen TV Display. They do not appear on the front panel display. Once you begin programmed playback you can shut the TV 'Off'.

- You cannot program a DVD disc or a CD containing MP3 compressed audio files.

STOP — PLAY

NUMBER BUTTONS

REPEAT
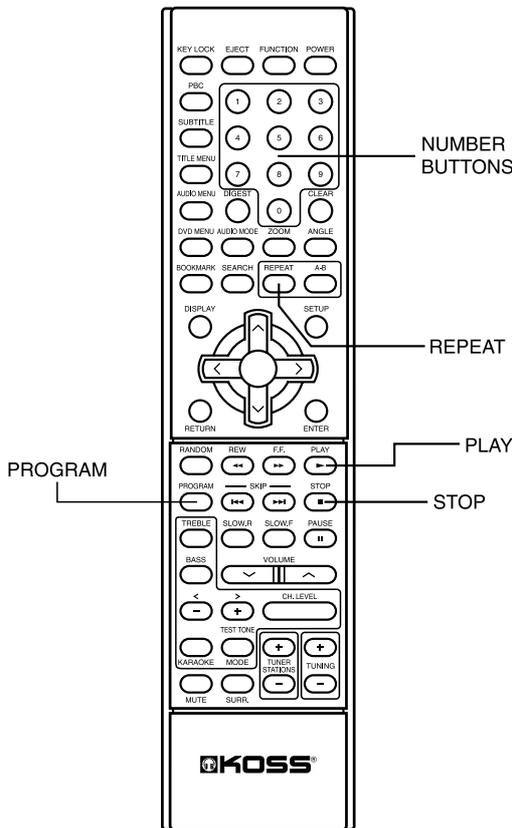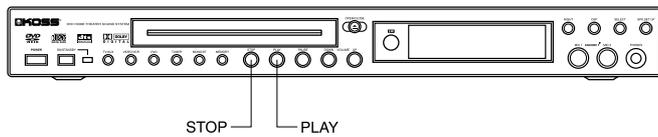
PLAY

PROGRAM

STOP

1. In stop mode, press the PROGRAM button to enter program registration mode. The programming display appears on the TV screen and the front panel display.

2. Use the number button (0-9) on the remote control to key in the track numbers you wish to program. For single digit track numbers press '0' first and then the track number. For example to program track number 7, press '0', '7'. If the track number is 10 or higher press the corresponding two buttons on the remote. For example to program track number 15, press "1", "5". Each time you press the number buttons the program number display automatically advances to the next number.

   The maximum number of tracks that can be programmed is 20. If you exceed that number the "Full" indicator will appear on the TV screen and the front panel display.

3. After you have completed the above program registration, press the PLAY button to start programmed playback.

Note:

- If you press the STOP button or other foreign buttons in the program setting mode, the system will interrupt and exit the program setting mode.

4. In program play mode, press the STOP button to stop program play, but the program sequence remains in memory.

Notes:

- The program remains even after the program play ends. When you press the PLAY, you can play the same program again.

- You can do repeat play of the programmed tracks by pressing the REPEAT button while in the program play mode.

5. To cancel the program from the memory after the disc has stopped press the PROGRAM button twice. The Program indicator on the front panel display will disappear.
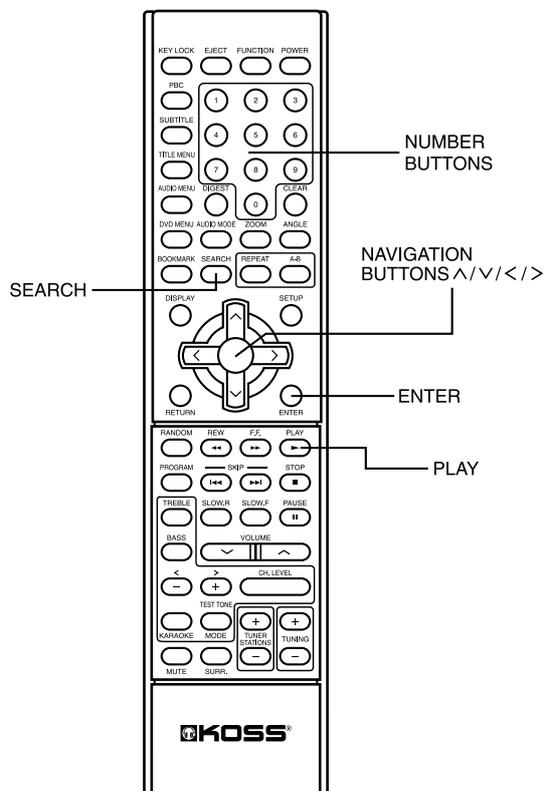
Notes:

- The program sequence is also cancelled when:
  - you open the disc tray.
  - you turn the power off.

Selecting a Start Point by Chapter or Time Code

You can start playback from a specific title or chapter on a DVD disc.

Note: This function is not available on audio CD's or MP3 CD's.

To start playback from a specific title or chapter

1. During DVD playback press the SEARCH button. The Title # / Chapter # bar appears at the top of the screen and the Chapter # field will be 'highlighted':

```
TITLE  02/05  CHAPTER   001/006
```

2. Use the number buttons to enter the desired starting chapter number in the 'highlighted' field.

Note: When entering single digit title or track numbers, enter '0' first (ie. enter '0', '7' for track 7).

3. To view a different title, after pressing the SEARCH button press the < (left) Navigation button to 'highlight' the Title # field, then use the number buttons to enter the desired title number in the highlighted field and press the ENTER or PLAY button to begin playback of the desired title.

```
TITLE  02/05  CHAPTER   001/006
```
```
TITLE  02/05  CHAPTER   001/006
```

To start playback at a specific elapsed time

You can start playback at any specific point in time on a DVD movie disc by entering a time code in the Time Menu. For example, to start playback at a point 1 hour and 15 minutes and 20 seconds from the start of the movie you would key in "1-1-5-2-0" as follows:

1. Press the SEARCH button twice. The Time Menu will appear on the TV screen and the front panel display as follows:

```
TITLE  02/05  TIME  -- : -- : --
```

2. Use the number buttons on the remote control to key in the desired starting time. In this example you would press the "1" (hours), "1-5" (minutes), and "2-0" (seconds).

```
TITLE  02/05  TIME  1 : 15 : 20
```

Notes:

- If the title number, chapter number or time code you input does not exist on the disc, the system will not execute your selection and the selecting menu will disappear.

- The selecting menu will disappear within a few seconds if you do not input a valid number.

Selecting a CD Track Using Number Buttons

You can select a CD track directly using the number (0-9) buttons.

- In play or stop mode, press the number button to select the track you want and press ENTER to confirm. The system will go to the beginning of the selected track and start playing it.

- If the track number is more than 10, press the 2 digits number buttons directly. For example, you want to select the track number 25, press the "2" button and press "5" button, then press the ENTER button.

Note: This function is not available for DVD.

Checking Disc Information Using Display Button

You can check information about the disc, such as the total number of the titles or chapters, tracks or time, using the Display function. The information you want appears on the TV screen and/or on the front panel display.

When playing back a DVD

1. Press the DISPLAY button once, the information about title number, chapter number and title elapsed time appears on the TV screen as shown below.

```
Title Elapsed                0:04:27
TT 01/01  CH 03/17
```

2. Press the DISPLAY button a second time to check the title remaining time.

```
Title Remain                 1:05:33
TT 01/01  CH 03/17
```

3. Press the DISPLAY button a third time to view the chapter elapsed time.

```
Chapter Elapsed          0:02:54
TT 01/01  CH 03/17
```

4. Press the DISPLAY button a fourth time to view the chapter remaining time.

```
Chapter Remain           0:01:04
TT 01/01  CH 03/17
```

5. Press the DISPLAY button a 5th time to return to the original display.

Notes:
- The above information does not appear on the front panel display.
- On certain DVDs, the title number, chapter number or time may not appear or you may not be able to change the display.

When playing a normal audio CD

1. Press the DISPLAY button once. The On Screen Display will show 'Single Elapsed' and display the elapsed time of the track being played.

```
Single Elapsed               02:31
Track  01/13
```

2. Press the DISPLAY button a 2nd time. The On Screen Display will show 'Single Remain' and display the remaining time of the track being played.

```
Single Remain                01:30
Track  01/13
```

3. Press the DISPLAY button a 3rd time. The On Screen Display will show 'Total Elapsed' and display the total elapsed time from the start of the disc.

```
Total Elapsed                02:31
Track  01/13
```

4. Press the DISPLAY button a 4th time. The On Screen Display will show 'Total Remain' and display the total remaining time on the disc.

```
Total Remain                 52:54
Track  01/13
```

5. Press the DISPLAY button a 5th time. The On Screen Display will show 'Off' and after a few seconds the time display will disappear.

MP3 Discs: When playing a CD containing compressed MP3 files pressing the DISPLAY button will only display the elapsed time of the track being played.

VCD (OSD): Single Elapsed time → Single Chapter Remaining time → Total Elapsed time → Total Remaining time →Off.

Setup Menu Listing

Following is a listing of all of the possible options for each setting in this system, as they appear on the menu pages. The factory default setting for each item is "highlighted". Before you decide to change any of the factory default settings please review the specific explanation of each setting on the following pages to be sure you understand how the change will effect the operation of your system.

-- GENERAL PAGE --

TV DISPLAY	PS	NORMAL/PS
		NORMAL/LB
		WIDE
TVTYPE	PAL	NTSC
		PAL
VIDEO OUT		SCART/CVBS
		YUV
ANGLE MARK	ON	ON
		OFF
OSD LANG	ENG	ENGLISH
		SPANISH
		GERMAN
		FRENCH
SCR SAVER	ON	ON
		OFF

-- PREFERENCE PAGE --

AUDIO	ENG	ENGLISH
		SPANISH
		GERMAN
		FRENCH
SUBTITLE	ENG	ENGLISH
		SPANISH
		GERMAN
		FRENCH
		OFF
DISC MENU	ENG	ENGLISH
		SPANISH
		GERMAN
		FRENCH
PARENTAL		1 KID SAF
		2 G
		3 PG
		4 PG13
		5 PGR
		6 R
		7 NC17
		8 ADULT
PASSWORD		CHANGE

DOLBY DIGITAL SETUP

DYNAMIC ——————— FULL
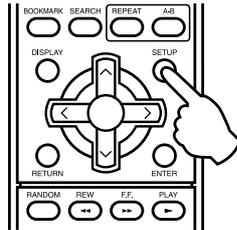
——— 3/4

——— 1/2

——— 1/4

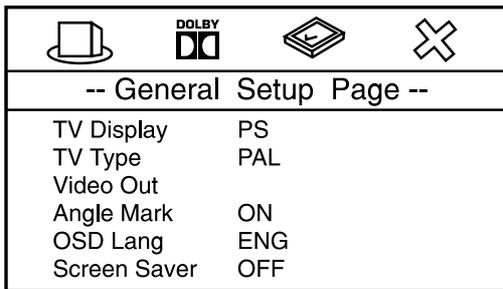——— OFF

Setup Menu Information

DVD Menu Setting

The Setup Menu lefs you customize the DVD player by allowing you to select various language preferences, set up a parental control level, turn captions and screen saver on/off, adjust what type of television screen you have and more.

Below you will find an image of the Setup Menu. Next, look at the corresponding page that describes the feature of the menu options you are interested in learning more about. Use the Navigation (< / > / ∧ / ∨) buttons to navigate through the menus/screens and press the ENTER button to select the highlighted option.

1. Press the SETUP button to bring up the setup menu.

The screen shows:

```
        DOLBY
  🎩     DD      ◈        ╳

      -- General  Setup  Page --

  TV Display      PS
  TV Type         PAL
  Video Out
  Angle Mark      ON
  OSD Lang        ENG
  Screen Saver    OFF
```

2. Press the "<" or ">" Navigation buttons to move the yellow disc symbol underneath the icons on the top part of the TV screen to the desired icon page.
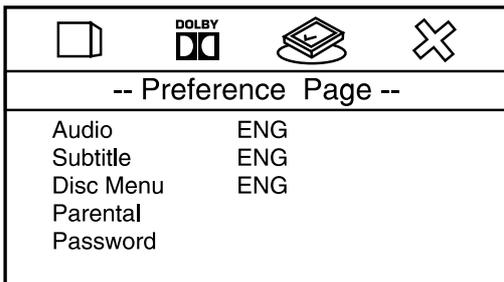
The following icons represent the 4 setup options.

    ▢ ----- General Setup Page

    DOLBY DD ----- Dobly Digital Setup Page

    ◈ ----- Preference Page

    ╳ ----- Exit Setup Page

Example: Select "Preference Page"

- Move the yellow disk symbol to the ◈ icon by pressing the ">" Navigation button.
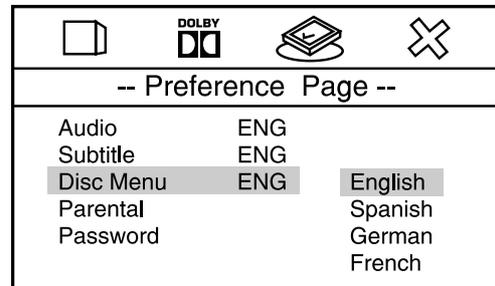
The screen shows:

```
        DOLBY
  ▢      DD      ◈        ╳

      -- Preference  Page --

  Audio           ENG
  Subtitle        ENG
  Disc Menu       ENG
  Parental
  Password
```

- Press the "∨" Navigation button to select "Disc Menu". The colour bar appears on the TV screen.

The screen shows:

```
        DOLBY
  ▢      DD      ◈        ╳

      -- Preference  Page --

  Audio           ENG
  Subtitle        ENG
  Disc Menu       ENG    English
  Parental               Spanish
  Password               German
                         French
```
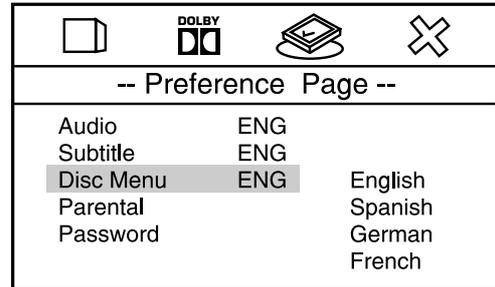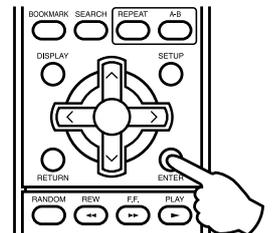
- Press the ">" Navigation button to show the submenu content and press the "∧" or "∨" to select for example "English". The colour bar shows your selection.

The screen shows:

```
        DOLBY
  ▢      DD      ◈        ╳

      -- Preference  Page --

  Audio           ENG
  Subtitle        ENG
  Disc Menu       ENG    English
  Parental               Spanish
  Password               German
                         French
```

- Press ENTER to confirm. Now the "Disc Menu" appears in English. (if available).

3. Exit from "Preference Page".

- Press the "<" Navigation button once to get out of the "Preference Page". The colour bar will disappear from the TV screen.

The screen shows:

```
        DOLBY
  ▢      DD      ◈        ╳

      -- Preference  Page --

  Audio           ENG
  Subtitle        ENG
  Disc Menu       ENG
  Parental
  Password
```
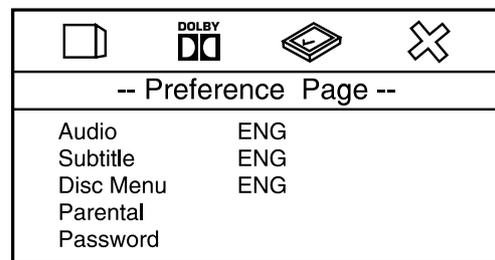
4. Repeat step 2 and 3 again to select the other Setup Page and other desired options in each page.

5. To exit from the Setup Menu, press the SETUP button on the remote once or go to the ╳ icon and press "ENTER".

TV Display Setting

Path: General Page → TV Display

Selects the aspect ratio of the TV set to be connected.

- NORMAL/PS (4:3 Pan & Scan mode):

  Used when you connect a normal TV to the system. Displays a wide picture on the whole TV screen with a portion (right and left sides of the picture) automatically cut off.
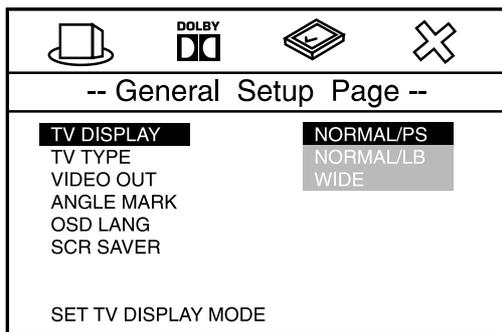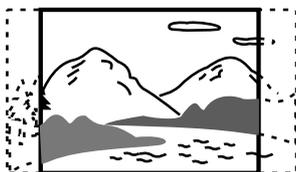
NORMAL/PS

- NORMAL/LB (4:3 Letterbox mode):

  Used when you connect a normal TV to the system. Displays a wide picture with bands displayed on the upper and lower portions of the screen.
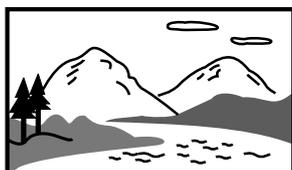
NORMAL/LB

- WIDE (16:9 Wide-screen mode):

  Used when you connect a wide-screen TV to the system.

WIDE

Notes:

- Some wide-screen discs that do not permit Pan & Scan mode playback are automatically played in Letterbox mode.

- Depending on the DVD, 4:3 Letterbox may be selected automatically instead of 4:3 Pan & Scan and vice versa.

- You must also set the screen mode on your wide-screen TV to "FULL".

- If WIDE is selected and a normal TV is connected, 16:9 content will appear distorted during playback (objects look thin).

TV Type Setting (Multi/NTSC/PAL)

If you live in North America your TV broadcast system is NTSC, your TV set is either a NTSC TV or a multi system TV, and the DVD movies you buy or rent will be labeled NTSC system. The initial Default TV Type setting of this system is "NTSC". This setting will allow NTSC discs to play properly on NTSC TVs. If you live in North America no further adjustment is necessary. You can skip to the next section.

If you wish to change the TV Type setting follow the 3 steps below.

1. Press SETUP button to enter SETUP MENU. Use < / > to select GENERAL SETUP, and then press ENTER button.

2. Highlight TV TYPE using ∧/∨, then press > button to go to the right option list. Select NTSC or PAL using ∧/∨, then press ENTER to confirm your selection.
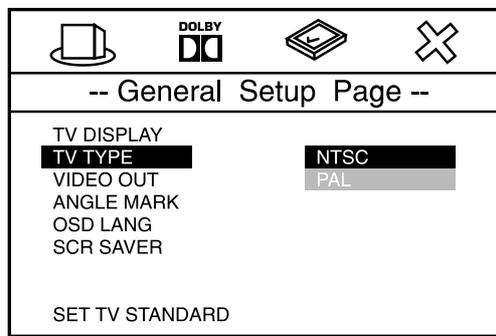
3. Press SETUP again to exit SETUP MENU.

Note:

- When the power is switched off, or the disc drawer is opened, the TV type will automatically revert back to the initial Default setting.
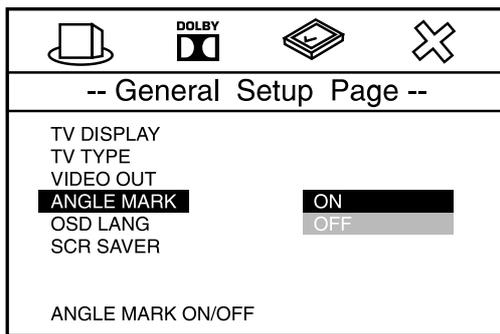
Video Out

Select the color video type and switch mode to fit your connector type:

SCART/CVBS: Select when using CVBS composite Video Output (if S-Video connector is provided.)

YUV: Select when using Component Video Outputs.

Selecting Angle Mark

Path: General Page → Angle Mark

-- General Setup Page --

TV DISPLAY
TV TYPE
VIDEO OUT
ANGLE MARK   ON
OSD LANG   OFF
SCR SAVER

ANGLE MARK ON/OFF

Some DVD movies contain scenes which were filmed from multiple angles simultaneously. If the scene you watching was shot from multiple angles, the angle icon "   " will appear on the screen. You may then press the ANGLE button on the remote to select the alternate angles. The default Angle Mark setting is OFF. If you leave the setting at OFF the angle icon will not appear, even if the scene was shot from multiple angles.

- ON: Angle icon appears on the TV screen.
- OFF: Angle icon does not appear.
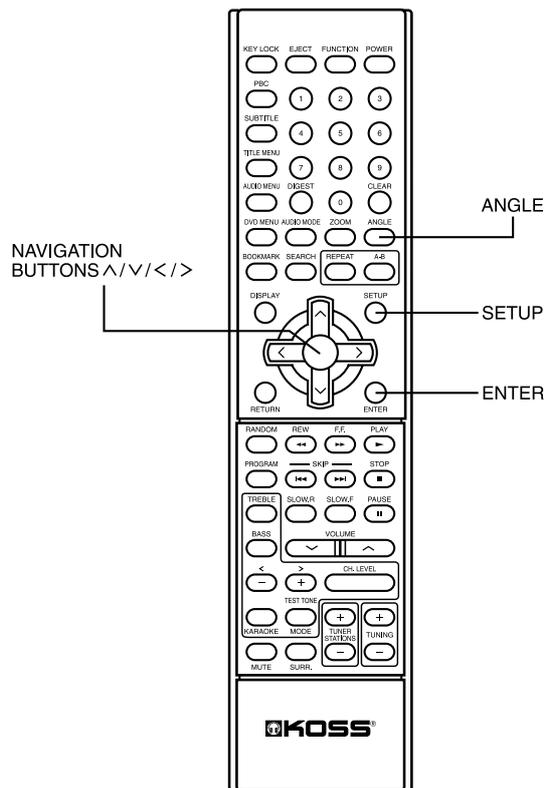
Angle mark is on   Angle mark is off

: 1/4
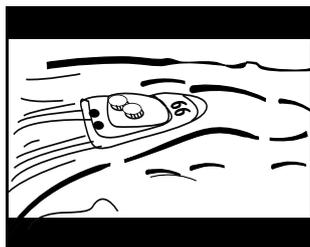
Note:
- You can change the angles using ANGLE button. For details see page 39.

Selecting the On Screen Display (OSD) Language

We have preset the initial Default On Screen Display (OSD) Language to English. This means that all of the on screen menus and icons will appear in English. If English is your preferred language no adjustment is necessary and you can skip to the next section.

If you wish to change the On Screen Display (OSD) Language to something else, your choices are French, German, Spanish. Follow the 3 step below to select a different On Screen Display (OSD) language.

ANGLE

NAVIGATION BUTTONS ∧ / ∨ / ＜ / ＞

SETUP

ENTER

1. Press SETUP button to enter GENERAL SETUP PAGE.

-- General Setup Page --

TV DISPLAY
TV TYPE
VIDEO OUT
ANGLE MARK
OSD LANG
SCR SAVER
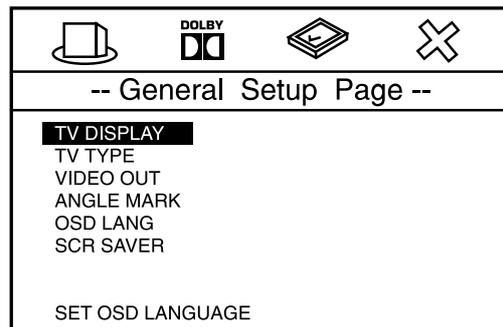
SET OSD LANGUAGE

2. Highlight OSD LANG using ∧/∨, then press > button to go to the right option list. Select the desired language using ∧/∨, then press ENTER to confirm your selection.

-- General Setup Page --

TV DISPLAY
TV TYPE
VIDEO OUT
ANGLE MARK
OSD LANG   ENGLISH
SCR SAVER   FRENCH
                 GERMAN
                 SPANISH
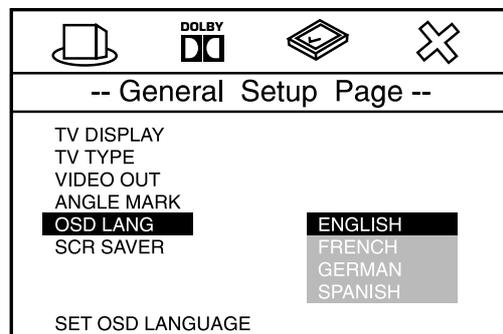
SET OSD LANGUAGE

3. Press SETUP again to exit SETUP MENU.

Note: If the disc you are viewing does not support the On Screen Display (OSD) language you selected the player will automatically default to the language specified on the disc itself.

Screen Saver Setting

Path: General Page → Screen Saver
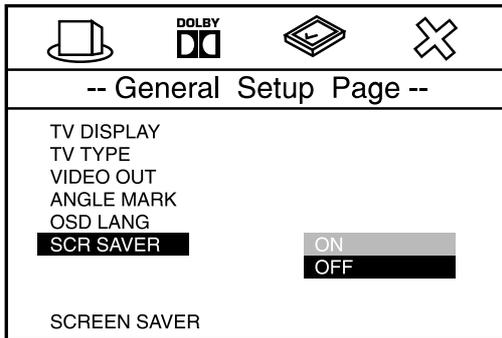
Turns the screen saver option on or off.

If you turn the screen saver on, the screen saver image appears when you leave the system in pause or stop mode for more than 1 minute. The screen saver is useful to prevent your display from becoming damaged.

- ON: Turns the screen saver on.

- OFF: Turns the screen saver off.

Dolby Digital Setup Page
Dynamic Range Setting

Path: Dolby Digital Setup → Dynamic
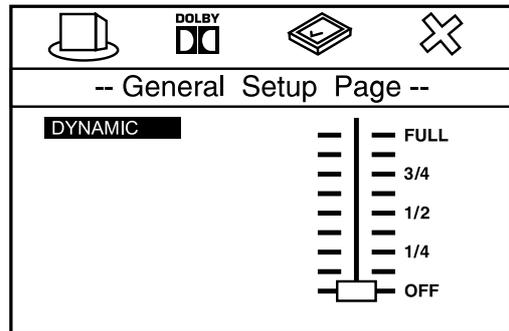
Default Setting: OFF

In many listening situations, it is objectionable to allow the sound to become very loud, and thus the loudest sounds must be compressed downwards in level. Likewise, the very quiet sounds would be inaudible and must be brought upwards in level to be heard. Dolby Digital satisfies these needs through the dynamic range compression.

Select the dynamic range compression to fit the individual listening situation of the audience. The variable range is from, FULL, 3/4 to 1/4, or OFF.

- FULL: Audio with fully compressed dynamic range.

- 3/4~1/4: Audio with partially compressed dynamic range.

- OFF: Audio with uncompressed dynamic range.

Note: The Dynamic Range settings only support Dolby Digital programs.

Preferences

The preferences page allows you to select the default language for the audio, subtitles and disc menus, change the parental control setting to prevent children from viewing unsuitable material, and change the password which is needed in order to change the parental control level.

Important: You cannot enter the Preferences page while a DVD disc is playing. If a disc is playing you must press the STOP button twice to completely stop playback. The STOP indicator appears on the front panel display. When the disc is stopped, press the SETUP button to enter the Setup Menu Main Page, use the > button to move down to Preferences and then press the ENTER button.
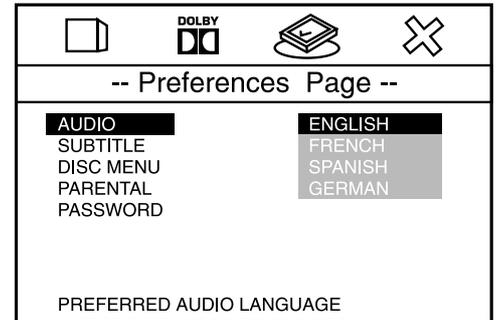
Selecting the Language for Audio

Path: Preferences → Audio

Default Setting: English

To change the language for audio use the Navigation buttons to highlight the desired language and then press the ENTER button to select it. The choices are English, French, Spanish, or German.

Notes:

- If you select an audio language that is not included on the DVD movie disc you are watching, the discs own default language is selected automatically.

- During playback you can select any audio language recorded on the disc by repeatedly pressing the AUDIO MENU button on the remote control, however this will not change the default setting. If you see the "Prohibited" icon when you press the AUDIO MENU button this means that no other audio language is available on the disc you are watching.

Selecting the Language for Subtitles

Path: Preferences → Subtitle

Default Setting: English

To change the subtitle language use the Navigation buttons to highlight the desired language and then press the ENTER button to select it. The choices are English, French, Spanish, German, or OFF (no subtitles).

Notes:

- If you select a subtitle language that is not included on the DVD movie disc you are watching, the discs own default subtitle language is selected automatically.

- During playback you can select any subtitle language recorded on the disc by repeatedly pressing the SUBTITLE button on the remote control, however this will not change the default setting. If you see the "Prohibited" icon when you press the SUBTITLE button this means that no other subtitle language is available on the disc you are watching.

Selecting the Language for Disc Menus

Path: Preferences → Disc Menu
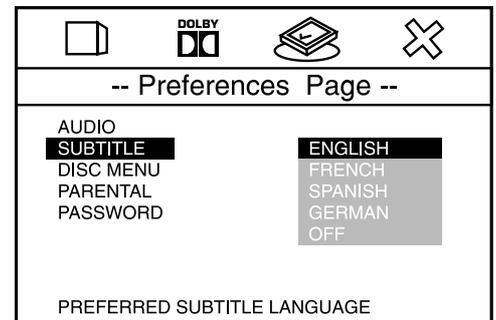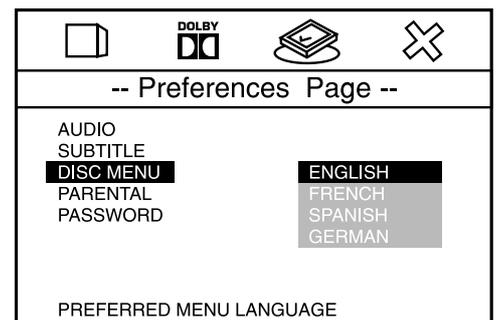
Default Setting: English
To change the Disc Menu language use the Navigation buttons to highlight the desired language and then press the ENTER button to select it. The choices are English, French, Spanish, or German.

Note:

- If you select a Disc Menu language that is not included on the DVD movie disc you are watching, the discs own default Disc Menu language is selected automatically.

Setting the Parental Control Level
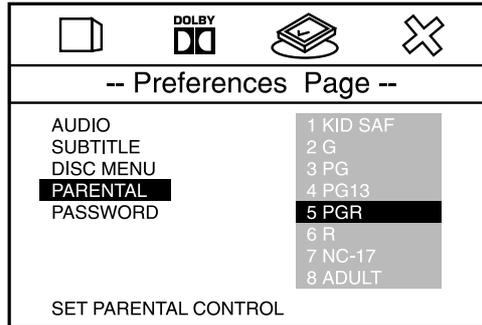
Path: Preferences → Parental

Default Setting: No Parental

Many DVD movie discs contain Motion Picture Association rating codes. This home theater system recognizes the codes on those discs and provides a method for you to prevent children from viewing films that are unsuitable or objectionable.
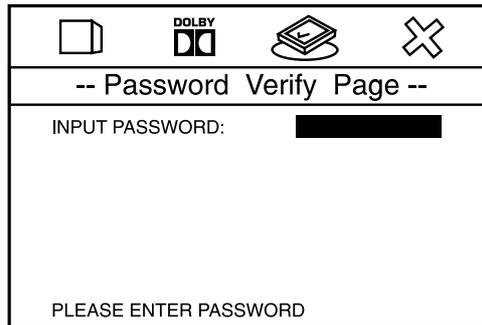
Important: If a disc does not include the MPAA coding it will play on this system regardless of the Parental Control level setting.

The default setting is "ADULT" which means that any Region 1 disc will play on this system. The optional settings range from "1 KID SAF" to "ADULT".

For example if you change the Parental Control level setting to "3 PG" (Parental Guidance) the system will refuse to play a DVD movie disc which is MPAA coded higher than level 3.

```
              DOLBY
    ▢         ▢▢        ◈         ✖

         -- Preferences  Page --

    AUDIO                 1 KID SAF
    SUBTITLE              2 G
    DISC MENU             3 PG
    PARENTAL              4 PG13
    PASSWORD              5 PGR
                          6 R
                          7 NC-17
                          8 ADULT

    SET PARENTAL CONTROL
```

When you change the Parental Control Level setting the system will ask you for a 4-digit password before making the change. The Password Verify Page will appear as shown below.

```
              DOLBY
    ▢         ▢▢        ◈         ✖

       -- Password  Verify  Page --

    INPUT PASSWORD:        ▨▨▨▨




    PLEASE ENTER PASSWORD
```

The default password for this system is "1234". Use the remote control number keys to enter "1 – 2 – 3 – 4" and then press the ENTER button. The Parental Control level is now changed. You will need to enter the password every time you change the Parental Control level setting.

Changing the Parental Control Password

Path: Preferences → Password → Change

To change the parental control password from the original factory setting of "1234" follow the path shown above to "hightlight" the "CHANGE" heading. Press ENTER and the Password Change Page will appear.

Use the number keys on the remote to enter the old password "1234". Only "XXXX" will appear as you enter the numbers. Then enter a new 4 digit password in the "NEW PASSWORD" box, and enter it again in the "CONFIRM PWD" box. Press ENTER once more to change the password from "1234" to the new 4 digit password which you entered.

```
              DOLBY
    ▢         ▢▢        ◈         ✖

       -- Password  Verify  Page --

    [ OLD PASSWORD:       ▨▨▨▨▨
    [ NEW PASSWORD:       ▨▨▨▨▨
    [ CONFIRM PWD:        ▨▨▨▨▨




    PLEASE ENTER OLD PASSWORD
```
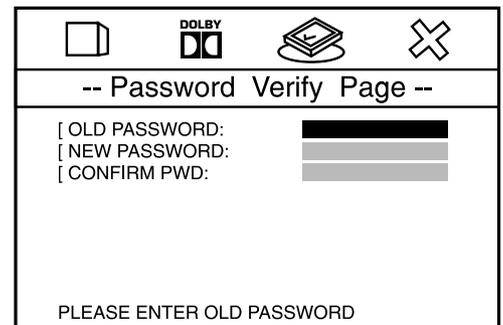
Speaker Setup

Speaker Configuration setup is important to perform prior to using the surround sound modes. It is possible to receive multi-channel surround sound without a center speaker. But for best results with Dolby Pro Logic and Dolby Digital decoding, at least 5 speakers (Left, Center, Right, Left Rear and Right Rear) should be used.

How to change speaker configuration settings:
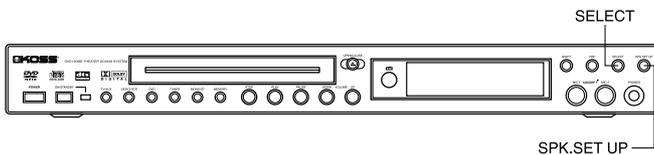
1. Press the SPEAKER SETUP button to choose speaker type. Each time you press the SPEAKER SETUP button, the speaker type changes as follows:

    Subwoofer, Center Speaker, Rear speaker, Center Delay, Rear Delay.

2. Press the SELECT button change the settings for each speaker.

SELECT

SPK.SET UP

Subwoofer Output

- SUB: ON
  Choose if a subwoofer is used.

- SUB:OFF
  Choose if no subwoofer is used.

Front Speaker:

- FRONT : LARGE
  The mode to choose if a large speaker is installed. Front channels output is full range.

- FRONT : SMALL
  The mode to choose when using compact speakers. When using small compact front speakers, it is recommended to connect a powered subwoofer to play the LFE / Bass out channel.

Caution:

If the subwoofer selector is set to off, the LFE / Bass out frequencies are sent to the front speakers. This can cause damage to small compact speakers when played at high volume.

Center Speaker:

- CENT : LARGE
  Use this mode with a large center speaker.

- CENT : SMALL
  Use this mode with a small center speaker.

- CENT : NONE
  (DOLBY DIGITAL/DOLBY PRO LOGIC mode only): Use this mode if there is no center speaker.
  The center channel signal will be divided between the Front L and R speakers.

Surround (Rear) Speaker:

- REAR : SMALL
  The mode to choose if small speakers are used.

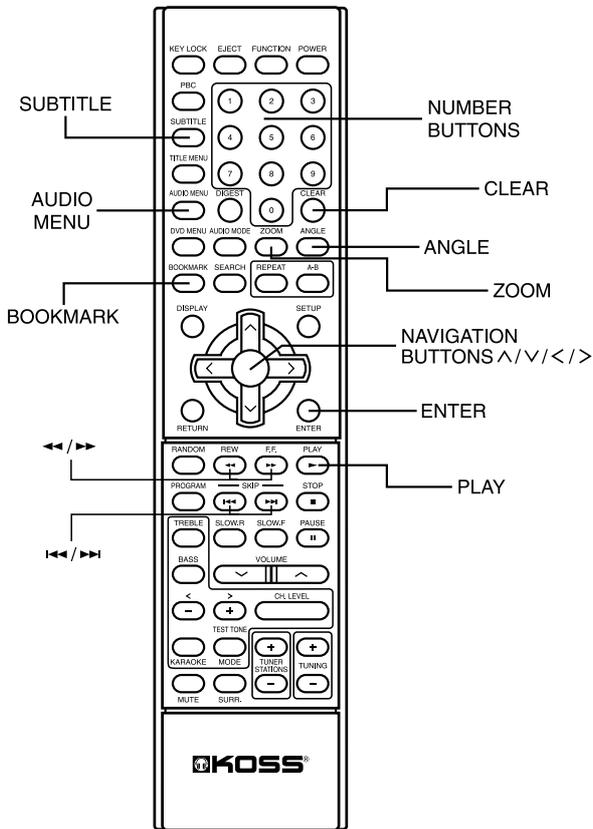- Delay time can be chosen up to 30ms max.

Karaoke Function

This system has a Karaoke function which can be accessed as follows:

1. Insert a Karaoke disc (CD-G, VCD or DVD) into the disc tray and press play to start playback.

2. Plug in 1 or 2 microphones (NOT INCLUDED) into (one of) the 2 microphone jacks on the front panel of the main unit.

3. Switch the Mic ON/OFF button to the ON position.

4. Press the KARAOKE button on the remote control once to activate the Karaoke function. The display will show "Karaoke ON".

5. Press the MODE button of the remote control once to enter the Mic1 mode. Press the **>** (+) or **<** (-) buttons of the remote control to choose the sound level of Microphone 1 (NOT INCLUDED) between 0 (minimum) and 20 (maximum).

6. Press the MODE button a second time to enter the Mic2 mode. Press the **>** (+) or **<** (-) buttons to choose the sound level of Microphone 2 (NOT INCLUDED) between 0 (minimum) and 20 (maximum).

7. Press the MODE button a third time to enter the Echo mode. Press the **>** (+) or **<** (-) buttons to choose an Echo level between 0 (minimum) and 3 (maximum).

8. Press the MODE button a fourth time to enter the Key mode. Press the **>** (+) or **<** (-) buttons to change the Key by 0.5 increment steps from -4.0 (minimum) and +4.0 (maximum).

9. Press the MODE button again to go back to Mic1 mode.

10. Press the KARAOKE button again to exit from the Karaoke function.

11. Switch the Mic ON/OFF button to the OFF position.

12. Disconnect the Microphones (NOT INCLUDED).

Note: Do not put your plug-in microphone (NOT INCLUDED) too close to the Audio speakers of your TV set to prevent noisy sound feedback.

Special Functions

This chapter describes how to use some special functions, such as subtitle selection, angle selection, etc.

KEY LOCK   EJECT   FUNCTION   POWER

PBC

SUBTITLE — SUBTITLE

TITLE MENU

AUDIO MENU — AUDIO MENU   DIGEST — CLEAR

DVD MENU   AUDIO MODE   ZOOM   ANGLE

BOOKMARK — BOOKMARK   SEARCH   REPEAT   A-B

NUMBER BUTTONS — 1 2 3 4 5 6 7 8 9 0

CLEAR

ANGLE

ZOOM

DISPLAY   SETUP

NAVIGATION BUTTONS ∧ / ∨ / < / >

RETURN   ENTER — ENTER

◄◄ / ►►

RANDOM   REW   F.F.   PLAY — PLAY

PROGRAM   SKIP   STOP

TREBLE   SLOW.R   SLOW.F   PAUSE

I◄◄ / ►►I

BASS   VOLUME

CH. LEVEL

TEST TONE

KARAOKE   MODE   TUNER STATIONS   TUNING

MUTE   SURR.

®KOSS

Zoom Control

1. Press the ZOOM button on the remote control during normal, slow or still (pause) playback.

2. If you press the ZOOM button repeatedly, the magnification level increases. Three magnification levels are available. On each press of ZOOM, the following message will appear on the TV screen.

ZOOM 2X

ZOOM 3X

ZOOM 4X

OFF
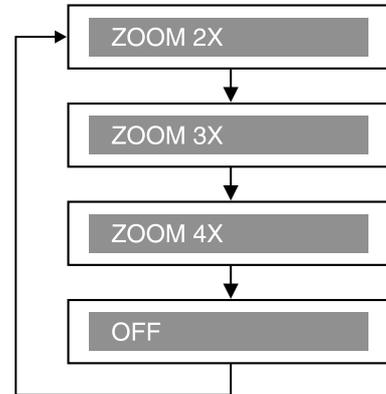
Notes:

- If you press the < / > / ∧ / ∨ buttons, the zoom point shifts, allowing you to pan the zoomed picture.

- Some discs may not respond to the zoom feature.

- Zooming does not work on subtitles or menu screens included on DVDs.

- The magnification level varies depending on the TV DISPLAY selection in the SETUP menu.

Angle Selection

Some DVD discs contain scenes which have been shot simultaneously from a number of different angles. For these discs, the same scenes can viewed from each of the different angles. (The recorded angles differ from disc to disc.)

1. While playing a title shot from different angles, the angle mark appears on the TV screen.

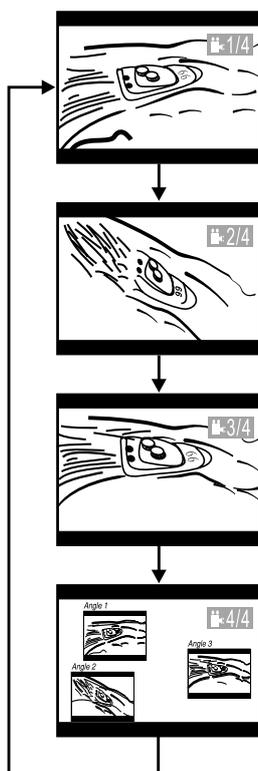2. Press the ANGLE button to change the scenes from one angle to other angles(s).
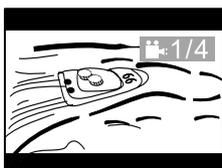
Number changes to show the number of recorded angles (1/4 → 2/4 → 3/4 → 4/4,etc.)

Note:
• The maximum number of angles allowed is 9.

Example: Sequence of angles shot.


Bookmark Function (DVD Only)

This special function allows you to enter up to 12 individual "bookmarks" within a Title on a DVD movie disc and return to those exact locations on the disc quickly and easily.

Note: Some DVD movie discs may not allow the "Bookmark" function.

1. Begin playback of the DVD movie disc as usual and then press the BOOKMARK button on the remote control. The movie continues to play but the BOOKMARK window appears over the movie as shown below:
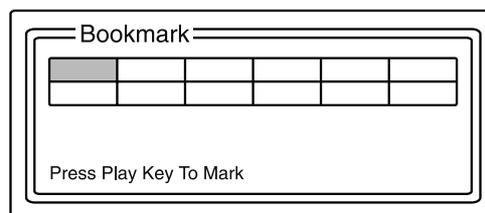
2. Press the PLAY button at the first point you want to bookmark. "01" will appear in the first bookmark box and the window will show the exact location (title/chapter/time) of the first scene you bookmarked.
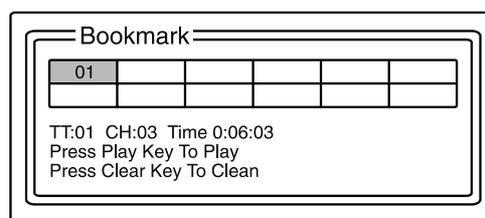
3. Press the PLAY button again to return to the beginning of the bookmarked scene. The Bookmark screen disappears.

4. To enter additional scenes in the Bookmark memory, select the scene you want to bookmark as usual. Press the BOOKMARK button on the remote to bring up the bookmark screen. Use the > Navigation button to highlight the next open bookmark box and press the PLAY button to bookmark the desired scene. Repeat this procedure to memorize up to 12 bookmarks.

5. To jump quickly to any bookmarked scene, press the BOOKMARK button to bring up the Bookmark screen. Use the < / > / ∧ / ∨ Navigation buttons to highlight the desired bookmark number, then press the PLAY button to begin playback of the desired bookmarked scene.

6. To delete any bookmarks from memory use the < / > / ∧ / ∨ Navigation buttons to highlight the desired bookmark number, then press the CLEAR button on the remote control to clear that scene from memory.

Note: All bookmarks are automatically cleared if the CD drawer is opened or if the power is switched 'Off'.

Subtitle Language Selection

Note:

- This function can only be used for DVD discs on which subtitles have been recorded in multiple languages.

While playing a DVD disc, press the SUBTITLE button repeatedly to select the desired subtitle language. Subtitles are displayed in the new language immediately.

Notes:

- Some DVDs display subtitles automatically, and can not be turned off even if you set the subtitle function to off.

- During some scenes, the subtitles may not appear immediately after you turn them on.

- Some DVDs allow you to make subtitle selections and turn subtitles on or off only via the disc menu. Use < / > / ∧ / ∨ and ENTER buttons.

- The maximum number of subtitle languages stipulated by the manufacturer is 41.

- You can set a preferred language for subtitle in the SETUP menu.

Audio Language Selection

Note:

- This function can only be used for DVD discs on which audio has been recorded in multiple languages.

While playing a DVD disc, press the AUDIO MENU button repeatedly to select the desired language for audio, and playback then continues in the desired language.

Notes:

- Some DVDs allow you to change audio selections only via the disc menu. Use < / > / ∧ / ∨ and ENTER buttons.

- The maximum number of audio languages stipulated by the manufacturer is 8.

- You can set a preferred audio language, see page 34.

PBC Function (VCD 2.0 Only)

PBC Playback Buttons

- When playing VCD with PBC functions, You can enjoy simple interactive software on the TV screen.

- During playback, such functions as track selection, stop, previous/next scene, fast forward/backward, return, play/pause and karaoke are available.

- PBC functions can be auto run after the disc is loaded and its logo appears on the main display.

  PBC button:
  This button switches
  PBC function on or off.
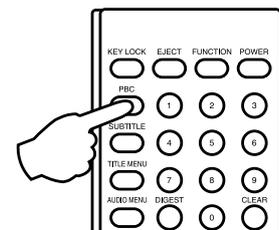
- Desired tracks can be selected by pressing numeric buttons when PBC functions are on.

  After you have inputted the track number, press ENTER. The player will start playing the desired track.

Picture CD Operations

1. Auto-Run mode

- After loading a picture CD into the disc tray, the player will automatically play the photos in the picture CD disc one by one continuously during play mode.

2. Rotating pictures

- During play mode, press one of the four navigation arrows once to rotate the picture 90 degrees on TV screen.

3. Choosing pictures from menus

- Press the STOP button or DVD Menu button during play mode to go into the menu. The TV will display 12 pictures in sequence on screen.

- If there are more than 12 pictures on the disc, go to the Forward or Previous Skip icon on TV and press Enter button to display the remaining pictures on TV.

- Press the Navigation arrows to choose 1 picture from the menu.

- Press the ENTER button to have the selected picture displayed on the TV screen.

- Press the PLAY button if you want to enter the Auto-Run mode.

4. Forward or Reverse Skip

- Press the Forward or Reverse SKIP buttons to scroll through the pictures when not in Auto-Run mode during play mode.


PBC functions allow you to select programs guided by simple interactive software.

Digest Display (for Movie DVDs)

This feature allows you to view the opening frame of each Title or Chapter on the disc and then use the < / > / ∧ / ∨ Navigation buttons, or the number buttons, on the remote control to begin playback from any Title or Chapter.
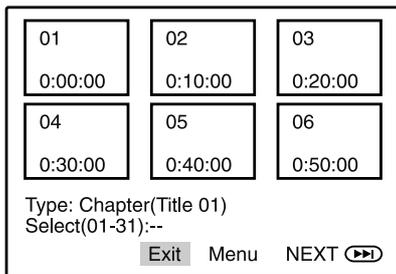
(A word about "Titles". When you buy or rent a DVD movie disc you may think that because there is only one movie on the disc, the disc contains only one title. However most DVD movie discs contain multiple "Titles" even though they contain only one movie. The opening credits may be Title 1, any Coming Attractions or Previews on the disc are also considered "Titles", any Special Features or Bonus Materials included on the disc are also considered "Titles". And of course, the movie itself is a separate "Title". Some "Titles" contain only one chapter. Longer "Titles" such as the movie itself contain multiple chapters.)

After you have loaded a movie disc and started playback you can press the DIGEST button on the remote control to view the different digest display options. The following window will appear on the TV screen:

```
Select Digest Type:
Title Digest
Chapter Digest
Title Interval
Chapter Interval
```
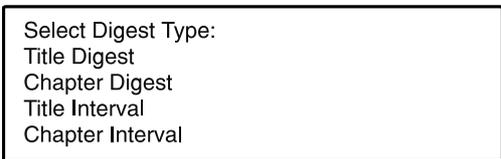
Use the ∧ / ∨ Navigation buttons to 'highlight' one of the digest display options and then press the ENTER button to select it.

Another window will open and show you the opening frame of the individual Titles or Chapters on the disc. Use the < / > / ∧ / ∨ Navigation buttons to 'highlight' the desired Title or Chapter, or use the number buttons to input the desired Title or Chapter number and the press the ENTER button to begin playback at the selected point.

```
01          02          03
0:00:00     0:10:00     0:20:00

04          05          06
0:30:00     0:40:00     0:50:00

Type: Chapter(Title 01)
Select(01-31):--
            Exit   Menu   NEXT ⏭
```

Note: Only 6 Titles or Chapters can be displayed on the TV screen at one time. If the disc contains more than 6 Titles or Chapters use the > Navigation button to 'highlight' NEXT, and then press the ENTER button to display the additional Titles or Chapters on the TV screen.

To exit the Digest Menu screen at any time select the Exit command on the screen, or press the DIGEST button on the remote control again

To return at any time to the main digest menu screen shown above, highlight the Menu option at the bottom of the TV screen.
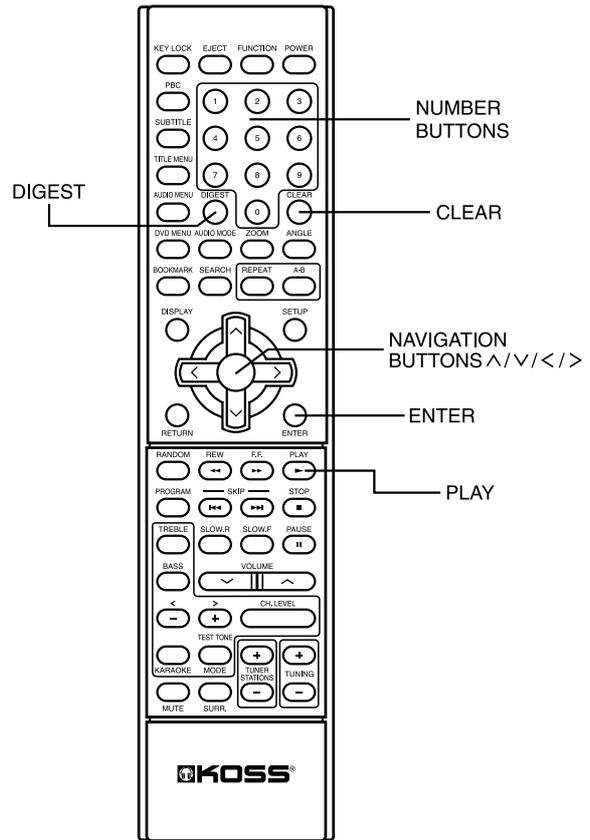
Digest/Intro-Scan Function (for Audio CDs)

When playing a normal audio CD the DIGEST button performs the same function as an INTRO SCAN button on a CD player. This feature is useful when you are trying to locate a specific song but you cannot remember the title or track number.

Load your CD in the tray and as soon as playback begins press the DIGEST button. The word "SCAN" will appear on your TV screen. The player will back up to the beginning of Track 1 and will play the first 6 seconds of each track on the disc. When you hear the desired song, press the PLAY button to cancel the SCAN function and begin normal playback from that point.
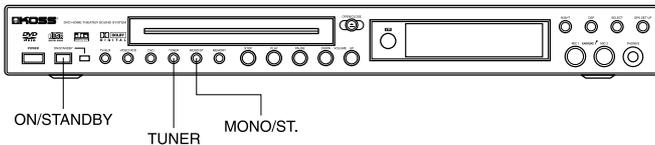
Other Functions

This chapter describes how to use some functions contained in the system. i.e. listen to the radio, how to listen to an external source, how to select a listening mode, etc.
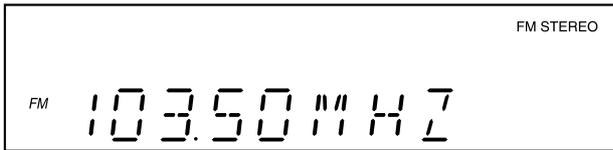
Listening to the Radio

To listen to preset radio stations

Preset radio stations into the systems memory first (see "Presetting Radio Stations" on page 20).

ON/STANDBY TUNER MONO/ST.

1. Press the TUNER button on the main unit repeatedly until "FM" or "AM" appears on the front panel display.

   The last received station is tuned in.

   FM STEREO

   FM   103.50MHZ

2. Press the TUNER STATIONS + or - button repeatedly to select the preset station you want. Each time you press the button, the system tunes into the next memorized preset station.

   You can also use the number buttons to select a preset station number directly.

3. Adjust the volume level by pressing the VOL ∧ or ∨ button on the remote control. This system has a built in Dolby Pro Logic decoder, so you can enjoy the live sound in Dolby Surround. For details, see "Other Sound Effects" on page 43.

4. To turn off the radio, press the ON/STANDBY button.

To listen to non-preset radio stations

Use manual or automatic tuning in step 2.
For manual tuning, press TUNING (+ or -) repeatedly.
For automatic tuning, press and hold TUNING (+ or -) until the frequency indicator starts to change automatically, then release the button.

If an FM station is noisy

Press MONO/ST. button on the front panel of the receiver. This will change the sound mode to 'mono'. Press the button again to restore the stereo effect.

To improve reception

Reorient the supplied antennas.

KEY LOCK

NUMBER BUTTONS

VOLUME ∨/∧

TUNING STATION +/−

TUNING +/−
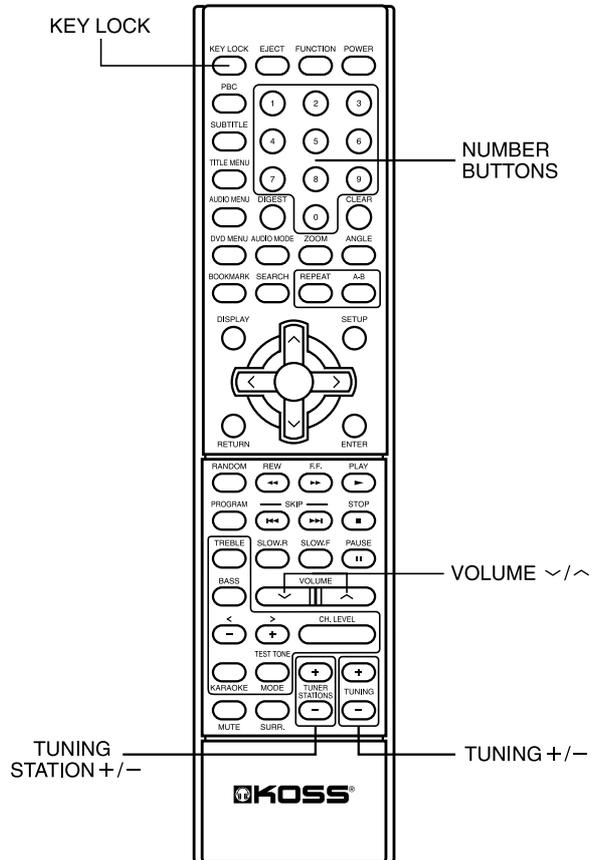
Key Lock (⌐—⊔)

This feature allows you to lock all the controls on the front panel of the main unit to prevent others, especially children, from operating the unit without the remote handset. To activate the key lock feature press the KEY LOCK button on the remote control. The key lock icon " ⌐—⊔ " appears on the main display and all the front panel controls are locked, except for the POWER button. To unlock the front panel controls press the KEY LOCK button on the remote control again. The key lock icon disappears.

Bass and Treble Adjustments

These adjustments can be made while a movie is playing or while the disc is stopped.

The default setting for the Bass and Treble level is 0dB. To increase or decrease the Bass or Treble levels press the BASS or TREBLE buttons on the remote control. The front panel display will show Bass or Treble and "0 dB". While the Bass or Treble level appears on the front panel display press the CH.LEVEL "+" (>) or "-" (<) buttons to adjust the levels up or down as desired.

TREBLE

BASS

SURROUND
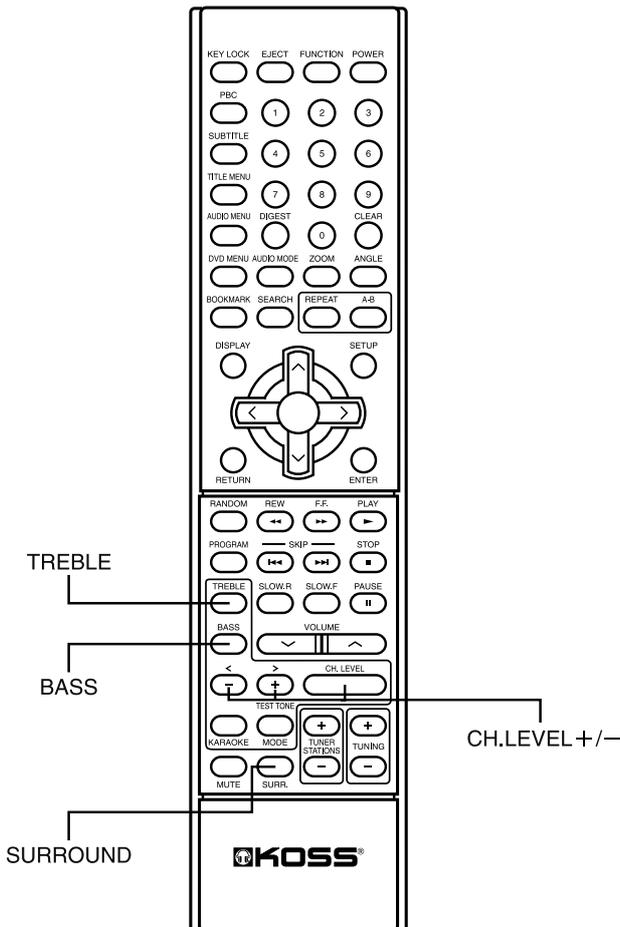
CH.LEVEL +/−

Adjusting the Left/Right Balance

If your normal listening position is closer to one side of your room rather than in the exact center, you can compensate by adjusting the Balance control.

Press the CH.LEVEL button on the remote control. The balance setting will appear on the front panel display as follows:

The above display indicates an equal balance between the left and right speakers. To shift the balance to the right, press the "+" (>) button. To shift the balance to the left, press the "-" (<) button. Note you must make the adjustments while the balance setting appears on the front panel display.

Center Level, Rear Level, and Subwoofer Level Adjustments

If the sound from the center speaker or rear speakers, or the subwoofer is too strong or too weak while you are watching a movie you can adjust those levels with the CH.LEVEL and +/- buttons on the remote control. Press the CH.LEVEL button repeatedly until the front panel display shows the speaker that you wish to adjust: CENTER, R-REAR, L-REAR, SUBW. Then press the "+" or "-" buttons to increase or decrease the level of that speaker. The adjustment range is +/- 10dB in 1 dB steps.

Other Sound Effects

When listening to music press the DSP Mode button on the front panel of the receiver or the SURROUND button on the remote repeatedly to cycle through the following special Surround Sound options: PRO LOGIC → 3 STEREO → CONCERT → LIVING → HALL → BATH ROOM → CAVE → ARENA → CHURCH → STEREO → PRO LOGIC. Select the option that provides the most desirable effects for the particular type of music that you are playing.

Listening to an External Source

If other audio component(s) are connected to this system (see page 16) You can hear the external source through the speakers of this system.
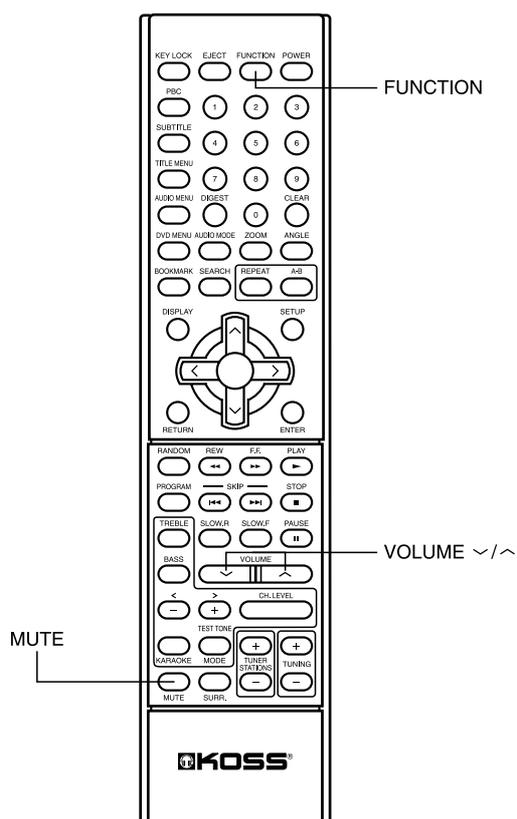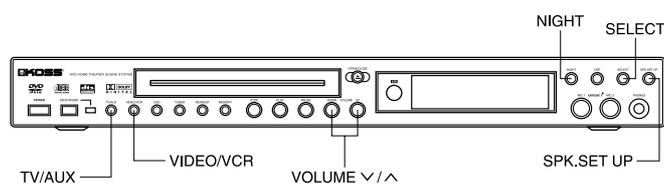
1. You can press the TV or Video button on the front panel of the unit or the Function button on the remote to select the desired external source directly.

2. Operate the component which you wish to listen to and is connected to this system.

3. Adjust the volume level by pressing the VOL ∧ / ∨ button on the front panel or remote control of this system.

Mute Control

To temporarily shut off the sound from the speakers press the MUTE button on the remote control. The "MUTING" indicator flashes on the front panel display.

Press the MUTE button again to cancel Mute and restore the sound. The "MUTING" indicator disappears.

Night Playback Mode (Front Panel Only)

This feature provides for additional Dynamic Range Compression during playback of a DVD movie. Press the NIGHT button on the front panel to switch the night function 'ON'. The sound level will be reduced but you will still have the proper balance of high and low frequencies to maintain the realism of the special effects. Press the NIGHT button again to switch the night function 'OFF' and resume the normal sound level. This feature is useful when you watch a DVD movie late at night and do not wish to disturb others.

Speaker Configuration Setup (Front Panel Only)

As long as you are using the 6 original speakers that were supplied with this system, you should not change the Speaker Configuration Setup. The default Speaker Configuration setup sends only the mid-range and high frequencies to the satellite speakers and all the low frequency bass sounds to the subwoofer. If you ever decide to replace your front left/right, center or rear satellite speakers with larger full range speakers that can handle low frequency bass sounds you would use the SPEAKER Configuration SETUP button and the SELECT button on the front panel to change the front left/right, center, or rear settings from "Small" to "Large". If you change the front left/right, center, and rear speaker setup from "Small" to "Large", the system will automatically send low frequency bass sounds to these speakers as well. In this case you could also use the SPEAKER Configuration SETUP and SELECT buttons to shut the subwoofer 'Off', and to adjust the rear speaker delay from 15ms to 30ms. See page 36 for more details.

Headphone Jack

Connect a set of stereo headphones to this jack for private listening without disturbing others. The speakers are automatically disconnected when headphones are in use. You must use a headphone with a full size plug (¼"/6.25mm diameter).

- **When using headphones always set the volume control to a low level before putting the headphones on. Then put the headphones on and very gradually increase the volume to a comfortable listening level.**

Additional Information

Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest service center by calling 1-800-287-4871.

No power.
- Is the power cord firmly plugged into the power outlet?
- One of the safety mechanisms may be operating. In this event, unplug the player from the power outlet briefly and then plug it in again.

No picture.
- Check that the system is connected securely.
- The video connecting cord is damaged. Replace it with a new one.
- Make sure you connect the system to the video input connector on the TV (see page 16).
- Make sure you turn on the TV.
- Make sure you select the video input on the TV so that you can view the pictures from this system.

Noise (interference) appears in the picture.
- Clean the disc.
- If video from this system has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD system directly to your TV S-Video input, if your TV is equipped with this input (see page 16).

The aspect ratio of the screen cannot be changed even though you set "TV DISPLAY" in the SETUP menu when you play a wide picture.
- The aspect rate is fixed on your DVD disc.
- If you connect the system with the S-Video cable, connect directly to the TV. Otherwise, you may not change the aspect ratio.
- Depending on the TV, you may not be able to change the aspect ratio.

There is no sound or only a very low-level sound is heard.
- Check that the speakers and components are connected securely.
- Make sure that you have selected the correct source on the system.
- Press MUTE button on the remote control if MUTING is blinking on the front panel.
- The protective device on the system has been activated because of a short circuit. Turn off the system, eliminate the short-circuit problem and turn on the power again.
- The audio connecting cord is damaged. Replace it with a new one.
- The system is in pause mode or in slow-motion play mode, or fast forward or fast reverse is performed
- Press PLAY button to return to normal play mode.

The left and right sounds are unbalanced or reversed.
- Check that the speakers and components are connected correctly and securely.
- Adjust front balance parameter using CH.LEVEL and < / > + / - buttons (see pages 43).

Troubleshooting (Continued)

Severe hum or noise is heard.
- Check that the speakers and components are connected securely.
- Check that the connecting cords are away from a transformer or motor, and at least 3 meters away from a TV set or fluorescent light.
- Move your TV away from the audio components.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.
- Clean the disc.

The surround effect is difficult to hear when you are playing a Dolby Digital sound track.
- Set the Dolby Surround to "OFF" in the SETUP menu.
- Check the speaker connections.
- Depending on the DVD disc, the output signal may at times be monaural or stereo even if the sound track is recorded in Dolby Digital format.

No sound is heard from the subwoofer.
- When you play A DVD movie disc, the player will automatically select DOLBY DIGITAL audio mode. If the DVD disc is recorded with Dolby Digital soundtrack you will hear sound from all 5 satellites plus subwoofer. If the DVD disc does not come with DOLBY DIGITAL and comes either Dolby Surround, Dolby Pro Logic or 2 channel Stereo soundtrack, the subwoofer will not operate. In this case press the DSP MODE button on the front panel or the remote control to select 2 CH. STEREO audio mode. This will activate the subwoofer.

The sound comes from the center speaker only.
- Depending on the disc at times the sound may come from the center speaker only. This is normal.

No sound is heard from the center speaker.
- Make sure the Center is set. (see page 43)
- The listening mode may be set to Dolby Pro Logic.
- Adjust the center speaker volume.

No sound or only a very low-level sound is heard from the rear speakers.
- Make sure the Rear speaker is configured properly. (see page 43)
- The listening mode may be set to 3-Stereo.
- Adjust the rear speaker volume.

Radio stations cannot be tuned in.
- Check that the antennas are connected correctly. Adjust the antennas and connect an external antenna if necessary.
- The signal strength of the stations is too weak (when turning in with automatic tuning). Use manual tuning.
- No stations have been preset.
- The tuner mode is not selected, select the Tuner mode.

The remote does not function.
- Remove any obstacles between the remote control and the system.
- Move the remote control closer to the system.
- Point the remote control at the remote sensor on the front panel.

- Replace all the batteries in the remote control with new ones if they are weak.
- Check that the batteries are loaded correctly.

The disc does not play.
- There is no disc inside. ("NO DISC" appears on the front panel display and the TV screen.) Insert a disc.
- Insert the disc correctly with the playback side facing down on the disc tray.
- Clean the disc (see page 12).
- The system cannot play CD-ROMs, etc. (see page 11). Insert a DVD, a CD, or a MP3 disc.
- Check the region code of the DVD disc (see page 11).
- Moisture has condensed inside the system. Remove the disc and leave the system turned on for about an hour. (see page 10)

The system starts playing the DVD automatically.
- The DVD features the auto playback function.

Playback stops automatically.
- Depending on the disc, the auto pause signal is recorded. While playing such a disc, the system stops playback at the signal.

Stopping playback, Search, Slow-motion play, repeat play or Program play, etc., cannot be done.
- Depending on the disc, some of the above operations may not be available.

Messages do not appear on the TV screen in the language you want.
- Select the language for OSD in SETUP menu (see page 34). The disc must have the language you selected, if not, other language will be selected.

The language for the sound cannot be changed when you play a DVD.
- Multilingual sound is not recorded on the DVD.
- Changing the language for the sound is prohibited on the DVD.

The language for the subtitles cannot be changed when you play a DVD.
- Multilingual subtitles are not recorded on the DVD.
- Changing the language for the subtitles is prohibited on the DVD.

The subtitles cannot be turned off when you play a DVD.
- Depending on the DVD, you may not be able to turn the subtitles off.

The angles cannot be changed when you play a DVD.
- Multi-angles are not recorded on some DVDs.
- Change the angles when the angle mark appears on the TV screen (see page 39).
- Changing the angles is prohibited on some DVDs.

The system does not operate properly.
- Static electricity, etc., may affect the system's operation. Disconnect the AC power cord once, then connect it again.

SPECIFICATIONS

Power Requirements : AC 120V, 60Hz

Power Consumption : 190W

Signal System : NTSC / PAL

Weight : 4.4Kg (main unit)

Dimensions : 427(L) X 324(W) X 53(H)mm
(excluding protrusions)

Operating Temperature Range : +5 to +35°C

Operating Humidity Range : 5 to 90% (no condensation)

Discs Played:

(1) DVD-VIDEO Disc : 12 cm single-sided, single-layer
12 cm single-sided, dual-layer
12 cm double-sided, single-layer
8 cm single-sided, single-layer
8 cm single-sided, dual-layer
8 cm double-sided, single-layer

(2) Compact Disc : 12 cm disc
8 cm disc

Video Output Level : 1 Vp-p

Audio Output Level : 2 Vrms (1 KHz, 0dB)

Audio Signal Output Characteristics :

Frequency Responses :
- DVD (Linear Audio) : 20Hz-20KHz (48KHz Sampling)
20Hz-20KHz (96KHz Sampling)

- CD Audio : 20Hz-20KHz
S/N Ratio : 70dB
Wow and Flutter : Below Measurable Level

Pickup : Wave Length : 655nm
Laser Power : CLASS 1

Specifications are subject to change without notice.
Weight and dimensions are approximate.

KOSS® HOME ENTERTAINMENT WARRANTY

We appreciate your purchase of a KOSS Home Entertainment product. We take pride in the quality of our products and have manufactured your new Home Entertainment unit to exacting quality standards. We feel confident that in normal use, it will provide you with satisfactory performance. However, should you experience difficulty, you are protected under the provisions of this warranty.

KOSS Home Entertainment products are warranted against manufacturing defects in materials and workmanship in normal use for the following period from the date of purchase by the original user, and is conditional upon the unit being installed and used as directed in the instruction manual.

PRODUCT	PARTS AND LABOUR
Audio Products	1 Year
Remote Control Unit	90 Days
Clock Radios	1 Year
Car Audio	1 Year
Headphones	90 Days
Home Theatre Products	1 Year
DVD Players	1 Year
Portable DVD Players	1 Year

KOSS's obligation under this warranty shall be limited to the repair, including all necessary parts and the cost of the labour connected therewith, or at our option the exchange of any Home Entertainment product which shows evidence of a manufacturing defect within the warranty period.

Replacement parts, furnished in connection with this warranty shall be warranted for a period equal to the unexpired portion of the original equipment warranty.

CUSTOMER OBLIGATIONS

This warranty applies to the product from the original date of purchase at retail. Therefore, the owner must provide a copy of the original, dated bill of sale. No warranty service will be performed without a bill of sale. Transportation to and from the service depot is the responsibility of the owner, as is removal and installation of Car Audio and Home Theatre products.

WARRANTY EXCLUSIONS

This warranty is extended to KOSS Home Entertainment products purchased and used in Canada. This warranty shall not apply to appearance or accessory items including but not limited to: antenna, cabinet, cabinet parts, knobs, batteries, connecting cables, cassette tapes, compact discs. This warranty shall, in addition, not apply to damages due to handling, transportation, unpacking, set-up, installation, customer adjustments that are covered in the instruction book, repair or replacement of parts supplied by other than the KOSS authorized service depot, any malfunction or failure caused by or resulting from abnormal environmental conditions, improper unauthorized service, improper maintenance, modifications or repair by the consumer, abuse, misuse, neglect, accident, fire, flood, or other Acts of God, and incorrect line voltage.

This Home Entertainment product is only warranted to the original retail purchaser. This warranty becomes void in the event of commercial or rental use. This warranty becomes void in the event serial numbers are altered, defaced or removed.

KOSS reserves the right to make changes in design or to make additions to or improvements upon this product without incurring any obligation to install the same on products previously manufactured. The foregoing is in lieu of all other warranties expressed or implied and KOSS neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of this product. In no event shall KOSS or its KOSS dealers be liable for special or consequential damage arising from the use of this product, or for any delay in the performance of this warranty due to cause beyond our control.

The purchaser may have other rights under existing provincial or federal laws, and where any terms of this warranty are prohibited by such laws, they are deemed null and void, but the remainder of the warranty shall remain in effect.

HOW TO OBTAIN SERVICE

Should this product require service, you may obtain specific information on how to obtain service by contacting the KOSS Dealer from whom this product was purchased, or by contacting us directly:
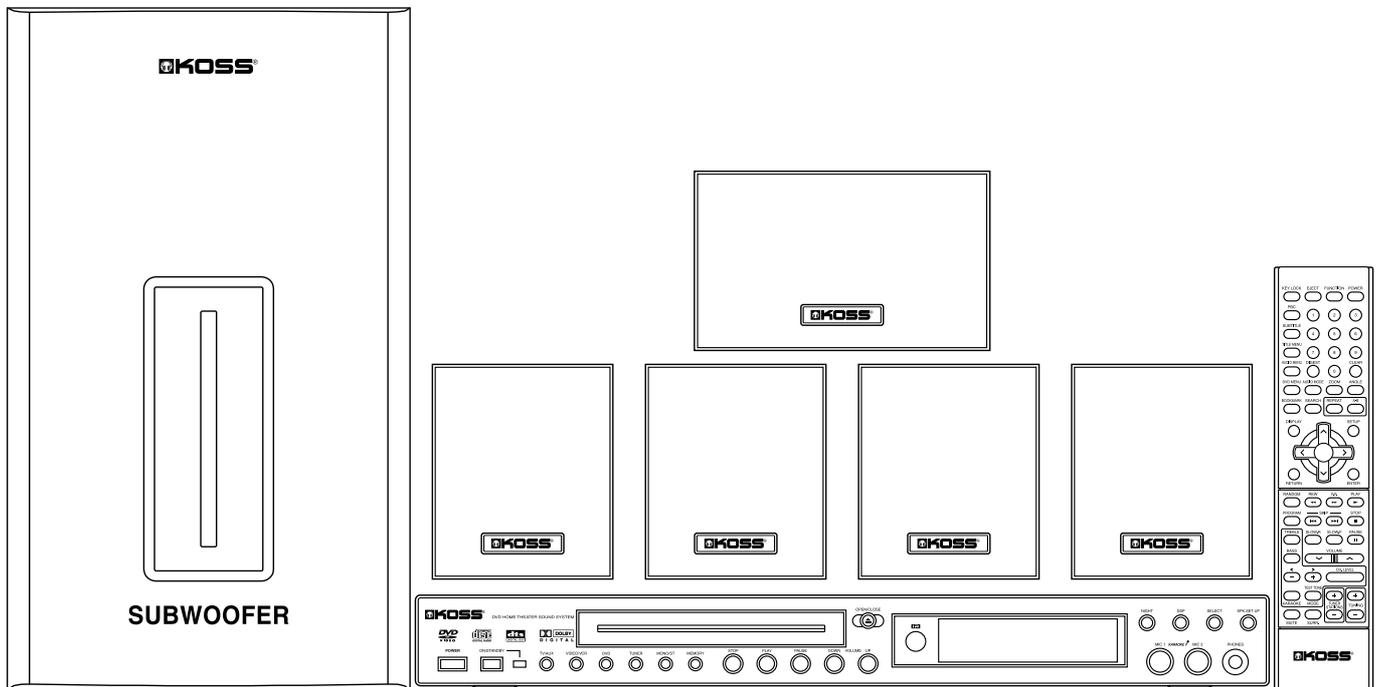
SONIGEM SERVICE

300 Alden Road
Markham, Ontario
L3R 4C1
PHONE: (905) 940-5089   FAX: (905) 940-2303
1-800-287-4871

KOSS®

DVD PLAYER RECEIVER WITH KARAOKE
MODEL NO: KS4380-2

SUBWOOFER

INSTRUCTION MANUAL